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1914

MUHLENBERG COLLEGE

ALLENTOWN, PENNSYLVANIA

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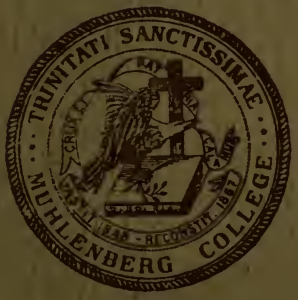

CATALOGUE

1914

CATALOGUE

OF

MUHLENBERG COLLEGE

ALLENTOWN, PA.

THE LIBRARY OF THE
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FOR THE

FORTY-SEVENTH COLLEGIATE YEAR

1914

ALLENTOWN, PA.
1914

COLLEGE CALENDAR.

1914

Jan. 5 ..... Christmas Vacation ends.
Jan. 20 ..... Semi-annual Board Meeting.
Jan. 26-30 ..... First Term ends; Mid-year Examinations.
Feb. 23 ..... Washington's Birthday.
Apr. 9-20 ..... Easter Recess.
May 18-22 ..... Final Examination of Senior Class.
June 7-12 ..... Examination of lower classes for promotion.
June 10 ..... Annual Board Meeting, at 10.00 a. m.
June 14 ..... Baccalaureate Sermon.
June 15 ..... President's Reception to the Seniors.
June 16 ..... Junior Oratorical Prize Contest, 10 a. m.
June 16 ..... Senior Class Day Exercises, 2 p. m
June 17 ..... Alumni Re-union.
June 18 ..... Commencement and Conferring of Degrees.

SUMMER VACATION

1914-1915

Sept. 10 ..... First Term begins.
Nov. 26-30 ..... Thanksgiving Recess.
Dec. 18 ..... Christmas Vacation begins.

1915

Jan. 4 ..... Christmas Vacation ends.
Jan. 25-29 ..... First Term ends; Mid-year Examinations.
Apr. 1-12 ..... Easter Recess.
June 13-17 ..... Commencement Week.

BOARD OF TRUSTEES.

Term Expires.

1915	Rev. James L. Becker, D.D.	Lansdale.
1915	Reuben J. Butz, Esq.	Allentown.
1915	D. D. Fritch, M.D.	Macungie.
1914	Rev. E. T. Horn, D.D., LL.D.	Philadelphia.
1914	Rev. C. M. Jacobs, D.D.	Philadelphia.
1916	Rev. W. D. C. Keiter, D.D.	Allentown.
1916	Mr. Thos. J. Koch	Allentown.
1915	Hon. C. R. Lantz	Lebanon.
1914	Evan B. Lewis, Esq.	Philadelphia.
1916	Mr. Geo. W. March	Norristown.
1916	Mr. James N. Mohr	Philadelphia.
1916	Mr. Chas. F. Mosser	Allentown.
1915	Mr. George K. Mosser	Noxen.
*1916	Rev. O. E. Pflueger	Womelsdorf.
1915	Samuel N. Potteiger	Reading.
1915	Rev. J. Chas. Rausch	Allentown.
*1914	Mr. Alfred G. Saeger	Allentown.
1914	Homlehas A. Schieren	Brooklyn, N. Y.
1914	Rev. T. E. Schmauk, D.D., LL.D.	Lebanon.
1916	Howard S. Seip, D.D.S.	Allentown.
*1914	Rev. G. F. Spieker, D.D., LL.D.	Philadelphia.
1916	Rev. A. Steimle	Allentown.
1916	Col. Harry C. Trexler	Allentown.
1915	Rev. J. H. Umbenhen, Ph.D.	Pottsville.
1914	Rev. J. H. Waidelich	Sellersville.
1914	R. D. Wenrich, M.D.	Wernersville.
1914	Rev. S. G. Weiskotten, D.D.	Brooklyn, N. Y.
1915	Rev. J. E. Whitteker, D.D.	Lancaster.
1914	Mr. P. H. Wohlsen	Lancaster.
1916	Mr. E. M. Young	Allentown.

*Deceased

OFFICERS AND COMMITTEES OF THE BOARD.

Reuben J. Butz, Esq., *President of the Board.*
Rev. W. D. C. Keiter, D.D., *Secretary of the Board.*
Oscar F. Bernheim, *Treasurer and Registrar, Allentown, Pa.*

CENTRAL EXECUTIVE COMMITTEE.

Reuben J. Butz, Esq., *Chairman.*
Rev. W. D. C. Keiter, D.D., *Secretary.*
D. D. Fritch, M.D.
Rev. J. A. W. Haas, D.D., *Ex-officio.*
Rev. J. H. Waidelich.
Chas. F. Mosser.

Rev. J. C. Rausch.
Howard S. Seip, D.D.S.
Rev. A. Steimle.
Edward M. Young.

EXAMINATION COMMITTEE.

Rev. E. T. Horn, D.D., LL.D., *Chairman.*
Rev. W. D. C. Keiter, D.D. Rev. J. C. Rausch.
Rev. C. M. Jacobs.

FACULTY AND INSTRUCTORS.

REV. JOHN A. W. HAAS, D.D., LL.D.
President's Residence, Campus.

President; Professor of Religion and Philosophy.

A. B., University of Pennsylvania, 1884; A. M., and B.D., University of Pennsylvania, 1887; Graduate Work, University of Leipsic. 1887-88; D.D., Thiel College, 1902; LL.D., University of Pennsylvania, 1914.

GEORGE T. ETTINGER, PH.D.
1114 Hamilton Street.

Dean; Professor of the Latin Language and Literature, and Pedagogy.

A. B., Muhlenberg College, 1880; A. M., Muhlenberg College, 1883; Ph.D., New York University, 1891.

REV. WILLIAM WACKERNAGEL, D.D.
626 Chew Street.

Chaplain; Professor of Modern Languages and Literature.

A. M., Muhlenberg College, 1882; D.D., University of Pennsylvania, 1883.

REV. JOHN A. BAUMAN, PH.D.
399 Turner Street.

Professor of Mathematics and Astronomy.

A. B., Muhlenberg College, 1873; A. M., Muhlenberg College, 1876; Ph.D., Muhlenberg College, 1894.

ROBERT C. HORN, A.M.
37 North Fifteenth Street.

Mosser-Keck Professor of the Greek Language and Literature.

A. B., Muhlenberg College, 1900; A. M., Muhlenberg College, 1903; A. M., Harvard University, 1904; Graduate Work, Johns Hopkins University, 1900-1901; Harvard University, 1903-1904; 1907-1908.

WILLIAM H. REESE, M.S.
310 South Seventeenth Street.

Asa Packer Professor Natural and Applied Sciences.

Ph.B., Lafayette College, 1896; M. S., Lafayette College, 1899; Graduate Work, Lafayette College 1897-1902; New York University, 1902-1903; 1908-1909.

ROBERT R. FRITSCH, A.M.
1232 Turner Street.

Instructor in German and Religion.

A.B., Muhlenberg College, 1900; A.M., Muhlenberg College, 1903; A.M., Illinois Wesleyan University, 1907; Graduate Work, University of Penna., 1910-1913.

HARRY D. BAILEY, A.M.
1734 Chew Street.

Professor of Biology.

A. B., Lafayette College, 1904; A. M., Lafayette College, 1911.

STEPHEN G. SIMPSON, A.M.
1418½ Chew Street.

Librarian; Assistant Prof. of English.

A. B., Lafayette College, 1896; A. M., Lafayette College, 1899.

JAMES H. S. BOSSARD, A.M.
507 North Seventh Street.

Instructor in History, Economics and Sociology.

A.B., Muhlenberg College, 1909; A.M., University of Penna., 1911; Graduate Work, University of Penna., 1911-1914.

REV. JOHN D. M. BROWN, A.M.
46 N. Jefferson Street.

Instructor in English.

A. B., Muhlenberg College, 1906. A.M., Columbia University, 1907. Mount Airy Theol. Seminary, 1910.

ALBERT C. H. FASIG, M.S.
42 South Fourteenth Street.

Instructor in Chemistry and Physics.

A. B., Muhlenberg College, 1909; M. S., Muhlenberg College, 1910.

HAROLD K. MARKS, A.B.

Instructor in Music

A.B., Muhlenberg College, 1907.

GEORGE McCAA

Instructor in Physical Education.

B. S. in M. E., Lafayette College, 1910.

WILLARD D. KLINE, M.D.
24 North Eighth Street.

Examining Physician.

A. B., Muhlenberg College, 1897; A. M., Muhlenberg College, 1900; M. D. Jefferson Medical College, 1901.

SPECIAL LECTURES IN 1913

"Complete Living."
PROF. HERMAN H. HORNE. Ph.D.
New York University.

"The Federation of the World."
MR. HAMILTON HOLT.
Editor of the Independent.

"Social Progress and Social Responsibility."
PROF. CARL KELSEY, Ph.D.
University of Pennsylvania.

"The Career of Man."
PROF. J. H. ROBINSON, Ph.D.
Columbia University.

"Fundamentals of the Building Art."
PROF. WARREN C. LAIRD, Sc.D.
University of Pennsylvania.

"Work, Play and Drudgery in Education."
PROF. T. M. BALLIET, Ph.D.
New York University.

"The American Novel—Past and Present."
PROF. ARTHUR H. QUINN, Ph.D.
University of Pennsylvania.

"Luther."
PROF. EPHRAIM EMERTON, Ph.D.
Harvard University.

"The Montessorri System."
PROF. F. D. GRAVES, Ph.D.
University of Pennsylvania.

MUHLENBERG COLLEGE.

This institution was originally called the *Allentown Seminary,* which name it retained until 1864, when, by an Act of the Legislature of Pennsylvania, it was incorporated with full collegiate powers under the title of the "Allentown Collegiate Institute and Military Academy." In the year 1867 its control passed into the hands of a board of trustees, chiefly members of the Evangelical Lutheran Church, who had the charter amended by the Court of Lehigh County, formed themselves into a joint stock company, named the institution MUHLENBERG COLLEGE, after the honored patriarch of the Lutheran Faith in this country, and established a full collegiate course of studies.

Subsequently the institution, by surrender of the stock, and with a charter amended by the proper Court, was put under the direct control of the "Evangelical Lutheran Ministerium of Pennsylvania and Adjacent States." Its trustees are now elected by that body.

LOCATION.

Allentown is beautifully located upon high grounds, a short distance from the confluence of the Jordan Creek and the Lehigh River, fifty-nine miles north of Philadelphia. Few locations combine in a more eminent degree the advantages of accessibility, healthfulness, beautiful surroundings, and adaptation for the pursuit of collegiate study.

The city has frequent and direct communications with New York, Philadelphia, Harrisburg, and the West, and, by the various railroads intersecting here, ready access to all parts of the surrounding country.

COLLEGIATE DEPARTMENT.

TERMS OF ADMISSION.

COURSE IN ARTS.

Candidates for admission to the Freshman Class of the Classical Course, except such as are admitted on certificate from reputable and properly accredited fitting schools, must sustain an examination. The subjects presented for admission must amount in all to 14 points. A point consists of a year's work in a subject of four one-hour periods or five three-quarter hour periods per week; or "of a year's study in a subject representing approximately a quarter of a full year's work." The subjects which may be presented for admission to the Freshman Class, together with the number of points at which each is valued, are given in the following list:

	Points
Latin	3
Advanced Latin	1
Greek	2
Advanced Greek	1
English	3
German	2
Advanced German	1
French	2
Advanced French	1
Mathematics	2½
Advanced Mathematics	½
History, a, b, c, d, each	1
Physics	1
Chemistry	1
Physical Geography	½
Physiology	½
Zoology	½
Botany	½
Astronomy	½

ADMISSION SUBJECTS IN DETAIL.

Greek.—Greek Grammar, and Prose Composition as found in White's First Lessons in Greek, or equivalent, and four books of Xenophon's Anabasis. 2 points.

Advanced Greek.—Homer's Iliad, six books, including Prosody. 1 point.

Latin.—Latin Grammar, and Prose Composition as found in Collar and Daniel's First Latin Book, four books of Cæsar's Commentaries, and six orations of Cicero, including *For the Manilian Law.* 3 points.

Advanced Latin.—Virgil's Æneid, Books I-VI, including Prosody. 1 point.

English.—English Grammar complete and Rhetoric. Applicants must also have read the books in English prescribed by the "Association of Colleges and Preparatory Schools in the Middle States and Maryland," or equivalents, and be examined on them. In place of part or all of this test, the candidate may present a properly attested exercise-book containing compositions and other written work done in connection with the reading of the books. 3 points.

Requirements for 1913-15 Reprinted from the Official Report of the Committee.

Preparation in English has two main objects: (1), command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence, and appreciation.

ENGLISH GRAMMAR AND COMPOSITION.

The first object requires instruction in grammar and composition. English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition governing punctuation, the use of

words, paragraphs, and the different kinds of whole composition, including letter-writing, should be thoroughly mastered; and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise narration, description, and easy exposition and argument based upon simple outlines. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his reading in literature. Finally, special instruction in language and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of using good English in his recitations and various exercises, whether oral or written.

LITERATURE.

The second object is sought by means of two lists of books, headed respectively *reading* and *study*, from which may be framed a progressive course in literature covering four years. In connection with both lists, the student should be trained in reading aloud and be encouraged to commit to memory some of the more notable passages both in verse and prose. As an aid to literary appreciation, he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their place in literary history.

READING.

The aim of this course is to foster in the student the habit of intelligent reading and to develop a taste for good literature, by giving him a first-hand knowledge of some of its best specimens. He should read the books carefully, but his attention should not be so fixed upon details that he fails to appreciate the main purpose and charm of what he reads.

With a view to large freedom of choice, the books pro-

vided for reading are arranged in the following groups, from which at least ten items are to be selected, two from each group:

GROUP I.—(For any item of this group an item from any other group may be substituted.) *The Old Testament*—Comprising the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther. *Homer—The Odyssey.* (English translation) With the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII. *Homer*—The Iliad. (English Translation) With the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI. *Virgil*—Æneid. (English translation.)

GROUP II.—*Shakespeare*—Merchant of Venice, Midsummer Night's Dream, As You Like It, Twelfth Night, Henry V, Julius Caesar.

GROUP III.—*Defoe*—Robinson Crusoe, Part I. *Goldsmith*—The Vicar of Wakefield. *Scott*—Ivanhoe; or *Scott*—Quentin Durward. *Hawthorne*—The House of the Seven Gables. *Dickens*—David Copperfield; or *Dickens*—A Tale of Two Cities. *Thackeray*—Henry Esmond. *Gaskell (Mrs.)*—Cranford. *George Eliot*—Silas Marner. *Stevenson*—Treasure Island.

GROUP IV.—*Bunyan*—Pilgrim's Progress, Part I. *Addison, Steel, and Budgell*—The Sir Roger de Coverley Papers in "The Spectator." *Franklin*—Autobiography (Condensed.) *Irving*—Sketch Book. *Macaulay*—Essays on Lord Clive and Warren Hastings. *Thackeray*—English Humourists. *Lincoln*—Selections from. Including the two Inaugurals, the Speeches in Independence Hall, and at Gettysburg, the Last Public Address, and Letter to Horace Greeley, along with a brief memoir or estimate. *Parkman*—Oregon Trail. *Thoreau*—Walden, or *Huxley*—Autobiography and Selections from Lay Sermons, including the Addresses on Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk. *Stevenson*—An Inland Voyage and Travels with a Donkey.

GROUP V.—*Palgrave*—Golden Treasury (First Series), Books II and III, with especial attention to Dryden, Collins, Gray, Cowper, and Burns. *Gray*—An Elegy in a Country Churchyard, and *Goldsmith*—The Deserted Village. *Coleridge*—The Rime of the Ancient Mariner, and *Lowell*—The Vision of Sir Launfal. *Scott*—The Lady of the Lake. *Byron*—Childe Harold, Canto IV, and The Prisoner of Chillon. *Palgrave*—Golden Treasury (First Series), Book IV, with especial attention to Wordsworth, Keats, and Shel-

ley. *Poe*—The Raven. *Longfellow*—The Courtship of Miles Standish, and *Whittier*—Snow Bound. *Macaulay*—Lays of Ancient Rome, and *Arnold*—Sohrab and Rustum. *Tennyson*—Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur. *Browning*—Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Herve Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City.

STUDY.

This part of the requirement is intended as a natural and logical continuation of the student's earlier reading, with greater stress laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions. For this close reading are provided a play, a group of poems, an oration, and an essay, as follows:

Shakespeare's Macbeth; Milton's L'Allegro, Il Penseroso, and Comus; either Burke's Speech on Conciliation with America, or both Washington's Farewell Address and Webster's First Bunker Hill Oration; either Macaulay's Life of Johnson, or Carlyle's Essay on Burns.

EXAMINATION.

However accurate in subject-matter, no paper will be considered satisfactory if seriously defective in punctuation, spelling, or other essentials of good usage.

The examination will be divided into two parts, one of which may be taken as a preliminary, and the other as a final.

The first part of the examination will be upon ten items chosen, in accordance with the plan described earlier, from the lists headed *reading;* and it may include also questions upon grammar and the simpler principles of rhetoric, and a short composition upon some topic drawn from the student's general knowledge or experience. On the books prescribed for reading, the form of the examination will usually be the writing of short paragraphs on several topics

which the candidate may choose out of a considerable number. These topics will involve such knowledge and appreciation of plot, character-development, and other qualities of style and treatment as may be fairly expected of boys and girls. In grammar and rhetoric, the candidate may be asked specific questions upon the practical essentials of these studies, such as the relation of the various parts of a sentence to one another, the construction of individual words in a sentence of reasonable difficulty, and those good usages of modern English which one should know in distinction from current errors.

The second part of the examination will include composition and those books comprised in the list headed *study*. The test in composition will consist of one or more essays, developing a theme through several paragraphs; the subjects will be drawn from the books prescribed for *study*, from the candidate's other studies, and from his personal knowledge and experiences quite apart from reading. For this purpose the examiner will provide several subjects, perhaps five or six, from which the candidate may make his own selections. The test on the books prescribed for study will consist of questions upon their content, form, and structure and upon the meaning of such words, phrases, and allusions as may be necessary to an understanding of the works and an appreciation of their salient qualities of style. General questions may also be asked concerning the lives of the authors, their other works, and the periods of literary history to which they belong.

German.—German Grammar as found in Joynes-Meissner's Grammar. The student must also have read 250 to 300 pages of German prose and poetry and must have the ability to translate simple English prose into German (about 100 lessons). Some of the books recommended for reading are Glück Auf, Storm's Immensee, Heyse's L'Arrabbiata, Hauff's Das Kalte Herz, Hillern's Hoeher als die Kirche,

Zschokke's Der Zerbrochene Krug, Gerstaecker's Germelshausen. 2 points.

Advanced German.—As recommended by the Modern Language Association of America, this work should comprise, in addition to the elementary course, the reading of about 400 pages of moderately difficult prose and poetry, with constant practice in giving, sometimes orally and sometimes in writing, paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; also grammatical drill upon the less usual strong verbs, the use of articles, cases, auxiliaries of all kinds, tenses and modes (with special reference to the infinitive and the subjunctive), and likewise in word order and word formation. 1 point.

French.—French Grammar. The student must also have read 100 to 175 pages of French in graduated texts and 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches, and must have the ability to translate simple English prose into French. Among the texts that we recommend are: Aldrich and Foster's Grammar, Aldrich and Foster's Reader, Sanderson's Through France and the French Syntax, Bacon's Une Semaine á Paris, Laboulaye's Contes Bleus, Feuillet's Roman d' un Jeune Homme Pauvre. 2 points.

Mathematics.—Arithmetic including the Metric System, Wentworth's Higher Algebra through Quadratics, and Wentworth's Plane Geometry. 2½ points.

Advanced Mathematics.—Solid Geometry. ½ point.

History.—

(a) American History and Civics. 1 point.
(b) Greek and Roman History. 1 point.
(c) English History. 1 point.
(d) General History. 1 point.

Science.—Physical Geography, Physiology, Zoology, Botany and Astronomy will each count one-half point. Chemistry and Physics, if accompanied by laboratory work, will each count one point.

REQUIREMENTS FOR THE A.B. COURSE.

Latin	4	Points
German	2	"
Greek	2	"
English	3	"
Mathematics	2½	"
	13½	Points

And at least one-half point from the list given on page 9. Or, if Greek is not offered, at least two and one-half points from the list on page 9.

REQUIREMENTS FOR THE B.S. COURSE.

German or Latin	3	Points
English	3	"
Mathematics	2½	"
Chemistry or Physics	1	Point
	9½	Points

And at least four and one-half points from the list on page 9.

REQUIREMENTS FOR THE PH.B. COURSE.

Latin	3	Points
English	3	"
German or French	2	"
Mathematics	2½	"
History	1	Point
	11½	Points

And at least two and one-half points from the list given on page 9.

COURSES OF INSTRUCTION.

There are three courses, under which the various subjects are grouped, the *Classical,* the *Scientific* and the *Philosophical.* With a necessary nucleus of required studies there is combined in the higher classes such a range of electives as may properly be left to the choice of the individual student. But even among electives certain studies are required of or recommended to those who are preparing for theology or medicine. All other students have as wide and free a choice as a liberal or scientific collegiate education, and the attestation which the respective degrees ought justly and historically to give, will wisely permit.

The Course in Arts, ending in the degree A.B., looks to the general liberal culture, which is a prerequisite for any of the learned professions or for specialization of cultural subjects in university work. The studies in the Course in Arts are also those which will most benefit any man seeking a higher education, that is becoming so valuable in any walk of life, and especially the higher business interests of our age.

The Course in Science, ending in the degree B.S., with a broad basis of general knowledge places Modern Languages and Mathematics in the center. It offers a good collegiate preparation for special university work in the Sciences, and is of advantage to the future student of medicine. At the same time it offers a good education for young men who intend devoting themselves to any of the industrial arts.

The Course in Philosophy, ending in the degree Ph.B., is planned in response to a growing demand for a course in which Philosophy, History, Economics and the Modern Languages should hold the most prominent place. This course aims to lay a broad and deep foundation in the subjects considered essential for a successful career in business or the

various professions, while imparting the knowledge, the culture and the training absolutely necessary for the solution of the current problems in philosophy and religion, as well as for the full and satisfactory performance of the daily duties of intelligent citizenship. The course is especially offered and recommended to teachers and young men of more advanced age who have never studied Greek, but otherwise have had sufficient preparation to benefit by the study of the many important subjects so intimately connected with the thought, the culture and the progress of modern life.

Special courses may be chosen in these departments where it is deemed advisable. But under no conditions will any student be allowed to do so unless he presents the full requirements for admission to the Freshman class.

No special course has been arranged to conform with the requirements of the Bureau of Medical Education and Licensure of the State of Pennsylvania. Provision has, however, been made for such students in Modern Languages (French 131, Scientific German 111); Chemistry, 233 and 234; Physics, 220 and 221; and Biology, 250, 251 and 252.

SYSTEM OF CREDITS FOR GRADUATION

The three degrees, A.B., B.S., and Ph.B. are conferred only on the satisfactory completion of seventy units of work. One hour of lecture or recitation work a week throughout the year, or two hours of laboratory work a week throughout the year, are accredited as one unit. Promotions will be made on the following basis: Any student with less than fifteen units to his credit will be ranked as a member of the Freshman class; any student having more than fifteen and less than thirty-four units will be ranked as a member of the Sophomore class; any student having more than thirty-four and less than fifty-five units will be ranked as a member of the Junior class. No student, under any conditions, will be allowed to enter the Senior class unless he has satisfactorily completed fifty-five units.

REQUIRED COURSES

Studies	A. B. Course			Ph. B. Course			B. S. Course		
FRESHMEN	First Term	Second Term	Units	First Term	Second Term	Units	First Term	Second Term	Units
Religion	1	1	1	1	1	1	1	1	1
Greek	50,52	51,52	4	.....	.....	..	.....	.....	..
Latin	71,73	72,73	4	71,73	72,73	4	*	.....	..
English	90,93	90,102	3	90,93	90,102	3	90,93	90,102	3
German	110	110	2	110,111	110,111	4	110,111	110,111	4
French	.....	.....	..	131	131	2	131	131	2
History	170	170	2	170	170	2	170	170	2
Mathematics	200,201	200,202	3	200,201	200,202	3	200,201	200,201	3
Chemistry	.....	.....	..	.....	.....	..	232,233	232,234	4
Physical Culture	.....	.....	1	.....	.....	1	.....	.....	1
			20			20			20
SOPHOMORES									
Religion	2	2	1	2	2	1	2	2	1
Greek	53	54	3	.....	.....	..	.....	.....	..
Latin	74,77	75,76	3	74,77	75,76	3	.....	.....	..
English	94,103	94,91	3	94,103	94,91	3	94,103	94,103	3
German	.....	.....	..	113	113	1	113	113	1
German	112	112	2	112	112	2	112	112	2
or-	or	or					or	or	
French	132	132	2	133	133	2	133	133	2
History	171	171	2	171	171	2	171	171	2
Mathematics	203,204	205,206	2	203,204	205,206	2	203,204	205,206	2
Chemistry	230,231	230,231	2	230,231	230,231	2	236	236	5
Biology	.....	.....	..	.....	.....	..	250,251	252	2
Physical Culture	.....	.....	1	.....	.....	1	.....	.....	1
			19			19			19
JUNIORS									
Religion	3	3	1	3	3	1	3	3	1
Philosophy	20	21	2	20	21	2	20	21	2
English	95	95	2	95	95	2	.....	.....	..
History	172	173	2	172	173	2	.....	.....	..
Economics	.....	.....	..	190	190	2	.....	.....	..
Physics	220	220	2	220	220	2	220,221	220,221	4
Chemistry	.....	.....	..	.....	.....	..	235	235	2
Biology	.....	.....	..	.....	.....	..	253	254	4
			9			11			13
SENIORS									
Religion	4	.....	1½	4	.....	1½	4	.....	1½
Ethics	.....	24	1½	.....	24	1½	.....	24	1½
English	99	100	2	99	100	2	.....	.....	..
History	174	174	2	174	174	2	.....	.....	..
Sociology	.....	.....	..	191	191	2	.....	.....	..
Physics	.....	.....	..	.....	.....	..	222	222	4
Biology	.....	.....	..	.....	.....	..	255,256	257	4
			7			9			11

*Latin may be elected.

ELECTIVES

The minimum number of units in the Junior year shall be sixteen, and in the Senior year fifteen. In both of these years a sufficient number of elective units must be chosen, which if added to the required units, will total these numbers. The maximum number of units allowed for the upper classes is eighteen. As stated elsewhere, all electives must be handed to the Dean on or before June 1st of the year when the elective course is to be taken. The major part of the electives should be chosen from one of the related subjects of a group.

JUNIOR ELECTIVES.

Studies.	Number of Course.	Credits.
Greek	55	2
Latin	78, 79	2
Latin	83, 84, 85	
German	114	2
German	115	2
French	134	2
French	135	2
Spanish	150	2
Italian	160	1
English	92	1
English	101	1
English	104	1
English	106	1
English	107	1
History	172, 173	2
History	174	2
Economics	190	2
Economics	192	1
Chemistry	240	2
Physics	241	2
Biology	250, 251, 252	4
Mathematics	208	2
Mathematics	211, 212	2
Pedagogy	30, 31	2
Music	40	1

SENIOR ELECTIVES.

Studies.	Number of Course.	Credits.
Greek	55	2
Latin	80, 81	2
Latin	85, 86, 87	
German	116	2
German	117	2
French	136	2
French	137	2
Spanish	151	2
Italian	160	1
English	96	2
English	97, 98	2
English	105	1
English	106	1
English	107	1
History	174	2
Sociology	191	2
Sociology	192	1
Chemistry	237	2
Chemistry	238, 239	3
Chemistry	240	2
Biology	258	1
Geology	270	2
Mathematics	209	2
Mathematics	210	3
Philosophy	22	3
Aesthetics	23	1
Pedagogy	32, 33	2
Music	41	1

FRESHMAN SCHEDULE

Time	Course	Monday	Term 1	Term 2	Tuesday	Term 1	Term 2	Wednesday	Term 1	Term 2	Thursday	Term 1	Term 2	Friday	Term 1	Term 2
	A.B.	Latin	71	72	Algebra	200	200	German	110	110	Algebra	200	200	Greek	52	52
8.40	Ph.B.	Latin	71	72	Algebra	200	200	German	110	110	Algebra	200	200			
	B.S.				Algebra	200	200	German	110	110	Algebra	200	200	Chemistry	232	232
9.40		Chapel			Chapel			Chapel			Chapel			Chapel		
	A.B.	English	93		Greek	50	51				Greek	50	51	Latin	73	73
					English		102									
10.00	Ph.B.	English	93		English		102							Latin	73	73
	B.S.	English	93		English		102									
	A.B.				Eng. (Sec. 1)	90	102	Eng.(Sec.2)	90	90	Chemistry	232	232			
							90	German	111	111						
11.00	Ph.B.	French	131	131	Eng. (Sec. 1)	90	102	Eng.(Sec.2)	90	90	Eng. (Sec. 1)	90	90	Eng. (Sec. 2)	90	90
							90	German	111	111						
	B.S.	French	131	131	Eng. (Sec. 1)	90	102	Eng.(Sec.2)	90	90	Eng. (Sec. 1)	90	90	Eng. (Sec. 2)	90	90
							90	German	111	111						
	A.B.				Latin	71	72	History	170	170	Eng. (Sec. 1)	90	90	Eng. (Sec. 2)	90	90
1.00	Ph.B.				Latin	71	72	History	170	170	Latin	71	72	History	170	170
	B.S.				Chemistry	233	234	History	170	170	Latin	71	72	History	170	170
	A.B.	Greek	50	51	German	110	110	Religion	1	1	Chemistry	233	234	History	170	170
2.00	Ph.B.	German	111	111	German	110	110	Religion	1	1						
	B.S. .	German	111	111	Chemistry	233	234	Religion	1	1				French	131	131
	A.B.	Math.	201	202	Beg. Greek						Chemistry	233	234	French	131	131
3.00	Ph.B.	Math.	201	202							Beg. Greek			Beg. Greek		
	B.S.	Math.	201	202	Chemistry	233	234									
											Chemistry	233	234			

Wed. 10.00 hour left open for Student Body meeting or Literary Societies on alternate weeks. This applies to all classes.

Time	Course	Monday	Term		Tuesday	Term		Wednesday	Term		Thursday	Term		Friday	Term	
			1	2		1	2		1	2		1	2		1	2
	A.B.	English	103	91	Greek	53	54	Math.	203 204	205 206	Greek	53	54	English	94	94
8.40	Ph.B.	English	103	91	German	113	113	Math.	"	"	French	133	133	English	94	94
	B.S.	English	103	91	German	113	113	Math.	"	"	French	133	133	English	94	94
9.40		Chapel			Chapel			Chapel			Chapel			Chapel		
	A.B.	History	171	171							History	171	171	Greek	53	54
10.00	Ph.B.	History	171	171							History	171	171			
	B.S.	History	171	171							History	171	171	Chemistry	236	236
	A.B.	Latin	74	76	Religion	2	2	Latin	74	76	German or French	112 132	112 132	Latin	77	75
11.00	Ph.B.	Latin	74	76	Religion	2	2	Latin	74	76	German	112	112	Latin	77	75
	B.S.				Religion	2	2	Chemistry	236	236	German	112	112			
	A.B.	German or French	112 132	112 132	Chemistry	230 231	230 231				Chemistry	230 231	230 231			
1.00	Ph.B.	German	112	112	Chemistry	"	"				Chemistry	"	"			
	B.S.	German	112	112	Chemistry	236	236	Biology	250 251	252	Chemistry	236	236			
	A.B.				Chemistry	230 231	230 231				Chemistry	230 231	230 231	Math.	203 204	205 206
2.00	Ph.B.	French	133	133	Chemistry	"	"				Chemistry	"	"	Math.	"	"
	B.S.	French	133	133	Chemistry	236	236	Biology	250 251	252	Chemistry	236	236	Math.	"	"
	A.B.	English	94	94	Chemistry	230 231	230 231				Chemistry	230 231	230 231			
3.00	Ph.B.	English	94	94	Chemistry	"	"				Chemistry	"	"			
	B.S.	English	94	94	Chemistry	236	236	Biology	250 251	252	Chemistry	236	236			

Either German 112 or French 133 must be taken by B.S. Students Either German 112 or French 132 must be taken by A.B. Students.

JUNIOR SCHEDULE

Time	Course	Monday	Term 1	Term 2	Tuesday	Term 1	Term 2	Wednesday	Term 1	Term 2	Thursday	Term 1	Term 2	Friday	Term 1	Term 2
	A.B.	Spanish	150	150												
8.00	Ph.B.	Spanish	150	150												
	B.S.	Spanish	150	150										German	115	115
	A.B.				English	95	95	Physics	220	220	Psych. Logic	20	21	Psych. Logic	20	21
8.40	Ph.B.				English	95	95	"	220	220	"	20	21	"	20	21
	B.S.	German	115	115				"	220	220	"	20	21	"	20	21
9.40		Chapel			Chapel			Chapel			Chapel			Chapel		
	A.B.	Pedagogy	30	31	Economics Latin Anl. Geom.	190 78 208	190 79 208				Anl. Geom.	208	208	History	174	174
10.00	Ph.B	or			Ecomonics	190	190				or			or		
	B.S.	French	134	134	Economics Latin Anl. Geom.	190 78 208	190 79 208				Spanish	150	150	French	135	135
	A.B.	Physics	220	220	Agri. Chem.	240	240	Religion	3	3	Economics	190	190	Agri. Chem.	240	240
11.00	Ph.B	Physics	220	220	or French	135	135	Religion	3	3	Economics	190	190	or		
	B.S.	Physics	220	220	or History	174	174	Religion	3	3	Economics	190	190	French	134	134
	A.B.				Oratory	104	104	German	114	114				English	95	95
1.00	Ph.B.							German	114	114				English	95	95
	B.S.	Biology	253	254				Physics	221	221	Chemistry	235	235			
	A.B.				Pedagogy	30	31	History	172	173	Greek or	55	55			
2.00	Ph.B.				Pedagogy	30	31	History	172	173	German	114	114			
	B.S.	Biology	253	254	Pedagogy	30	31	Physics	221	221	Chemistry	235	235			
	A.B.	Greek or	55	55	History	172	173				Latin or	78	79	English	106	106
3.00	Ph.B.	Music	40	40	History	172	173				French	135	135			
	B.S.	Biology	253	254				Physics	221	221	Chemistry	235	235			

History, 174, must be taken either Junior or Senior year. Agricultural Chemistry may be taken either Junior or Senior year.

SENIOR SCHEDULE

Time	Course	Monday	Term 1	Term 2	Tuesday	Term 1	Term 2	Wednesday	Term 1	Term 2	Thursday	Term 1	Term 2	Friday	Term 1	Term 2
	A.B.				Spanish	151	151				Spanish	151	151	Eng. Poets	97	98
8.00	Ph.B.				Spanish	151	151				Spanish	151	151	or French	136	136
	B.S.				Spanish	151	151				Spanish	151	151	German		
	A.B.				Pedagogy	32	33	Religion Ethics	4	24	Geology	270	270	French	136	136
8.40	Ph.B.				Pedagogy	32	33	"	4	24	Geology	270	270	French	136	136
	B.S.				Pedagogy	32	33	"	4	24	Geology	270	270			
9.40		Chapel			Chapel			Chapel			Chapel			Chapel		
	A.B.				Economics or German	190 116	190 116				Religion Ethics	4	24	History	174	174
10.00	Ph.B.										"	4	24	History	174	174
	B.S.	Physics	222	222	Physics	222	222				"	4	24			
	A.B.	Sociology	191	191	History	174	174	Aesthetics	23	23	Philosophy	22	22	Gen. Biol.	258	258
11.00	Ph.B.	Sociology	191	191	or						Philosophy	22	22	or		
	B.S.	Sociology	191	191	Agr. Chem.	240	240	German	117	117				Agri. Chem.	240	240
	A.B.				Geology	270	270				English	96	96	English	99	100
1.00	Ph.B.				or						or			English	99	100
	B.S.				English	104	104	Physics	222	222	French	136	136	Biology	255 256	257
	A.B.	English	99	100	Sociology	191	191	Philosophy	22	22	Pedagogy	32	33	Philosophy	22	22
2.00	Ph.B.	English	99	100	Sociology	191	191	Philosophy			or Greek	55	55	Philosophy	22	22
	B.S.				Sociology	191	191	Physics	222	222	or Calc.	209	209	Biology	255 256	257
	A.B.	Greek	55	55	Eng. Nov.	96	96	Eng. Poets	97	98	Religion Ethics	4	24	English	106	106
3.00	Ph.B.				Eng. Nov.	96	96	Eng. Poets.	97	98	"	4	24	or German	116	116
	B.S.	German	117	117	Eng. Nov.	96	96	Physics	222	222	"	4	24	Biology	255 256	257

History 174 required if not taken Junior year. Agricultural Chemistry may be taken either Junior or Senior year.

DEPARTMENTS OF INSTRUCTION.

RELIGION.

THE PRESIDENT AND MR. FRITSCH.

Because it believes an intellectual without a spiritual training to be a grave error, Muhlenberg College strives, throughout its entire course, to secure not only a proper study of religion, but also a consistent practice of it. Convinced also that a vague, general religious knowledge is ineffectual, it imparts and inculcates its instructions loyally and specifically. While the position of Muhlenberg College is conservatively Lutheran, and true to the Church which has founded and endowed it, yet it is by no means narrow or exclusive. The work of each day is begun with worship in the Chapel, attendance at which is expected. Attendance upon the service of some specified church on the Lord's Day is also required, while connection with Sunday-school, as scholar or teacher, is recommended.

In addition, there exists a students' association, with voluntary Bible and Mission Classes, weekly devotional meetings, and monthly public gatherings at which some phase of Christian work is presented by an invited speaker.

1. An Outline of Biblical History. W. 2 (1)

MR. FRITSCH

The historical facts from Genesis to the Babylonian Captivity. A Manual of Bible History—Blaikie. Assigned readings of Scripture text. Freshman required.

2. An Outline of Biblical History. T. 11 (1)

MR. FRITSCH

An Outline of Biblical History, giving the historical facts from the Babylonian Captivity to Revelation. A Manual of Bible History—Blaikie. Assigned readings of Scripture text. Sophomore required.

3. Biblical Literature. W. 11 (1)

THE PRESIDENT

A literary and historical study of the books of the Bible with a final emphasis on the fact of revelation and its content. Haas, Bible Literature is used in connection with lectures and readings in the Bible. Junior required.

4. The Problem of Religion. First Term, W. 8.40; Th. 10, Th. 3 (1½)

THE PRESIDENT

This course consists of lectures and discussions on the apologetic basis of religion, and specifically Christianity. It treats of such topics as the nature of religion, the origin of religion, the great typical religions, the conception of God, God and man, God and the world, the problem of sin, the finality of Christianity in a comprehensive manner. Its purpose is to give the student lines of direction in modern discussions on religion, and to serve as an elementary but distinctively Christian course introductory to possible graduate University work in Psychology of Religion, Comparative Religion and Philosophical Theism. Senior required; three hours, first term.

5. The Elements of Religion.

The Elements of Religion will be discussed every year in a series of lectures either on "The Augsburg Confession," or on Luther's Smaller Catechism or on some other confessional writing of our Lutheran Church. The name of the lecturers will be announced in due time. Required of all Lutherans; elective for others.

PHILOSOPHY.

THE PRESIDENT.

The purpose of the courses in Philosophy is to develop the power of clear reasoning and accurate statement, to show the value of philosophical system, familiarize with philosophical terms and indicate the movement of philosophical thought.

The study of Psychology is to prepare for a general understanding of the relation of mind and body. The course in Logic is to show the underlying principles of thought and science. History of Philosophy presents the great philo-

sophical problems in their historic connections. Aesthetics is to give an insight into the ideals and principles of the beautiful. Ethics is the necessary supplement to general philosophical study, but also has important practical bearings. All these courses look only to general principles, but prepare for detailed post-graduate university work.

20. Psychology. First Term, Th. 8.40; F. 8.40 (1)

The problems of the distinction of psychology and physiology, sensations, perceptions, feeling, thought, volition, the self, etc., are studied in outline, preparing for larger, fuller work. Two hours, first term, Junior required. Pillsbury, Essentials of Psychology. (Lectures and parallel references to James, Judd, Angell, Seashore.)

21. Logic. Second Term, Th. 8.40; F. 8.40 (1)

This course embraces the principles of deductive and inductive logic. It discusses the concept, judgment, division, classification, syllogisms, fallacies; agreement, difference, causation, hypothesis, analogy, probability, etc. Two hours, second term, Junior required. Logic Deductive and Inductive, John Grier Hibben; and parallel references particularly to the new logic.

22. History of Philosophy. W. 2, Th. 11, F. 2 (3)

A more intensive course in Greek philosophy on the basis of Cushman, History of Philosophy, Vol. I. Lectures, readings, and discussions of philosophical problems. Senior elective, three hours, throughout the year.

23. Aesthetics. W. 11 (1)

A short seminar course with lectures and essays on the history and principles of art. Senior elective one hour, throughout the year.

24. Ethics. Second Term, W. 8.40; Th. 10; Th. 3 (1½)

This course includes lectures and discussions on the foundation of ethics and its relation to religion, Hedonism, Rationalism and Personalism; free will, the conscience, virtue, duty, pessimism; and a practical outline of personal and social ethical relations and duties. Senior required; three hours, second term.

PEDAGOGY.

DEAN ETTINGER.

This department offers a two years' course embracing the History of Education, Educational Psychology, Metho-

dology, and a study of Educational Classics. The History of Education traces the development of pedagogic thought and theory from the earliest times to the present. This is followed by a study of Psychology with special reference to its relation to education. Under Methodology the educational value of the various subjects usually taught, the proper methods of teaching the same, and the most important questions of school management are discussed. The study of Educational Classics affords scope for criticism and exacts original work by the class. The course in this department is conducted by means of recitations from text-books, lectures, and original papers by the class.

30. History of Education. First Term, M. 10, T. 2 (1)
Junior elective. (Seeley.)

31. Educational Classics. Second Term, M. 10, T. 2 (1)
Junior elective. (Painter's Educational Classics.)

32. Educational Psychology. First Term, T. 8.40; Th. 2 (1)
Senior elective. (Dexter and Garlick's Psychology in the Schoolroom.)

33. Methodology. Second Term, T. 8.40; Th. 2 (1)
Senior elective. (Compayre's Lectures on Pedagogy.)

MUSIC.

MR. MARKS

This department does not aim to give formal instruction on any specific instrument, much less to turn out so-called "finished musicians." The object of the courses offered is to afford the student a comprehensive knowledge of the theory and history of music so that he can the better appreciate their true place and value as an element of culture in the development of the individual.

40. The Theory of Music. M. 3 (1)
The Elements of Music, Harmony, Form. Throughout the year, one hour, elective for Juniors.

41. The History of Music. Hour to be arranged (1)

Antiquity, Music of the Early Christian Age, Polyphonic Music, The Lutheran Reformation, Schools of Music, Contemporary Composers, Biography. Throughout the year, one hour, elective for Seniors.

THE ANCIENT LANGUAGES.

DEAN ETTINGER AND PROFESSOR HORN.

GREEK

PROFESSOR HORN.

The aim of the four years' work is to give the student so firm a grasp of grammar and so large a vocabulary that he will be able with comparative ease to read any ordinary (Attic) Greek text, and at the same time to make him familiar with the best writers of Greece, and to give him an intelligent acquaintance with Greek history, geography, institutions, and culture. The work will be such that a student will be fitted for graduate work at the larger institutions of learning. Throughout the course, stress is laid upon the geography and history of Greece; lectures, some of which will be illustrated by the stereopticon, will be given on these and similar subjects. The department has been recently furnished with the best ancient maps, by Henry Kiepert, and every aid will be afforded the student for geographical work. In the college library there will be reserved many books, to which students will be frequently referred, and which will be in constant use.

The Department is supplied with a number of photographs and lantern slides illustrating Greek art and architecture, history and private life; these will be used for the purpose of instruction.

Each member of every class should own the following books: Goodwin, Greek Grammar, revised edit.; Goodwin, Moods and Tenses of the Greek Verb, new edit.; Kiepert's Atlas Antiquus, or Putzger's Historical School Atlas, or

Grundy's Small Classical Atlas (Oxford University Press), or Ginn and Co.'s Classical Atlas; Liddell and Scott's Greek Lexicon, unabridged, preferably one of the latest editions. Note books will be needed.

Beginners' Greek. T. 3, Th. 3, F. 3

This course is intended for mature students who enter college without Greek and are eager to make up their loss. The progress is rapid, for the student must master the elements of the language and read a considerable amount of Xenophon's Anabasis, in connection with which there will be work in Prose Composition. The course will be introductory to 50 and 51.

White's First Greek Book; Goodwin and White's Anabasis; Pearson's Greek Prose Composition.

REQUIRED OF CLASSICAL FRESHMEN.

50. Lysias. First Term, M. 2, T. 10, Th. 10 (1½)

51. Iliad. Second Term, M. 2, T. 10, Th. 10 (1½)

52. Greek Prose Composition. Fr. 8.40

Morgan's Eight Orations of Lysias; Benner's Selections from the Iliad; Mierow's Greek Syntax. Required of Classical Sophomores.

53. Plato's Apology and Crito and Selections from Phaedo. First Term, T. 8.40; Th. 8.40; F. 10 (1½)

54. Greek Comedy. Second Term, T. 8.40; Th. 8.40; F. 10 (1½)

Two plays of Aristophanes will be read. Three hours a week, second term.

Plato's Apology and Crito, Dyer, revised by Seymour; Jebb's History of Greek Literature; the texts of Aristophanes will be announced later.

ELECTIVES FOR JUNIORS AND SENIORS

55. Greek Literature. M. 3, Th. 2 (2)

The authors read will be announced later. In addition to the study of representative selections from great authors, there will be lectures and reports. Some New Testament Greek will be included in the course.

ELECTIVES FOR JUNIORS AND SENIORS OMITTED IN 1914-1915

56. Greek Drama. (2)

One play each of Aeschylus, Sophocles, Euripides, and Aristophanes. A study of the development of Greek Tragedy and Comedy. Two hours a week.

57. Greek History. (2)

Two hours a week. The course will consist of required reading, lectures, and reports. Some of the reading will be in the original Greek.

58. Lyric Poetry. (1)

Tyler's Greek Lyric Poets, new edition.

LATIN

DEAN ETTINGER.

The courses offered in this department are intended to afford the student such a knowledge of the language, the thought, the life and the antiquities of the Roman people and the "Eternal City" as an intelligent cultured American of to-day may be justly expected to possess. Without aiming to train Latin philologians or Roman archæologists, which is altogether the business of the university, Muhlenberg College offers such courses based on the study of the masterpieces of Roman Literature as will afford an accurate and comprehensive survey of the character, the history and the achievements of this wonderful people, the important part they played in the development of the human race and their contributions to the Modern Languages, literatures, jurisprudence and government in general. The work in this subject furthermore aims to lay the broad and deep foundations so necessary for successful post-graduate study.

That the student may receive the fullest benefit from the courses in this department, it is absolutely essential that he bring with him, when entering college, such a knowledge of the fundamentals of Latin Grammar and elementary Latin prose composition, together with a fair and ready command of the vocabulary of the Roman speech as will enable him to take an active and intelligent part in the work of the classroom. In this connection we cannot too strongly emphasize the importance of honest and sufficient work in the preparatory school.

[Allen and Greenough's Latin Grammar is used as the general authority and all students are urged to provide themselves with Harper's Larger Latin Dictionary, as the smaller dictionaries will not suffice for the work in the higher classes. The Roman system of pronunciation is used.]

70. Beginners' Latin. Hours to be arranged.

Especially offered for the benefit of students of more advanced years who have the ability and the determination to fit themselves for more extended work in Latin. Text books selected to suit conditions. First term, four hours a week. Freshman year.

71. Cicero. First Term, M. 8.40; T. 1, Th. 1 (1½)

De Amicitia, and De Senectute. With special attention to the vocabulary, forms and construction. First term, three hours. Required of all Freshmen, except Philosophical and Scientific students not taking Latin. (Bennett's De Amicitia and De Senectute.)

72. Livy. Second Term, M. 8.40; T. 1, Th. 1 (1½)

Selections from Books I, XXI and XXII. The history of the Punic Wars. With special attention to the idioms and the derivation of words. Second term, three hours. Required of all Freshmen, same as 71. (Westcott's Livy.)

73. Latin Grammar and Prose Composition. F. 10 (1)

A careful review of the grammar combined with original work in composition on the part of the student. Throughout the year, one hour. Required of all Freshmen, same as 71. (Allen and Greenough's Latin Grammar. Arnold's Latin Prose, revised by Bradley.)

74. Horace. First Term, M. 11, W. 11 (1)

Odes and Epodes. Selections with special study of the biographical, historical and mythological allusions and frequent practice in scanning the meters of Horace. First term, two hours. Required of all Sophomores taking Latin. (Bennett and Rolfe's Complete Horace.)

75. History of Rome. Second Term, F. 11 (½)

A careful survey of Roman History with special emphasis on the leading events. Second term, one hour. Required of all Sophomores taking Latin. (Botsford's Rome.)

76. Horace. Second Term, M. 11, W. 11 (1)

Satires and Epistles, especially the Ars Poetica. Selections with special reference to the beauty of thought, the felicity of expression and the philosophical value of the works of Horace. Second term, two hours. Required of all Sophomores taking Latin. (Bennett and Rolfe's Horace.)

77. Roman Literature with Dissertations. First Term, F. 11 (½)

The study of a good text-book supplemented with original dissertations on the leading Latin authors read before the class. First term, one hour. Required of Sophomores taking Latin. (Mackail's Latin Literature.)

78. Cicero. First Term, T. 10, Th. 3 (1)

De Oratore. Selections with a survey of Roman oratory and special reference to the rhetorical value of the work. First term, two hours. Elective for Juniors. (Owen's De Oratore.)

79. Plautus and Terence. Second Term, T. 10, Th. 3 (1)

The Captives and the Andria, with an introductory study of Roman Comedy. Second term, two hours. Elective for Juniors. (Elmer's Captivi and Fairclough's Andria.)

80. Tacitus. Hours to be arranged (1)

The Germania and the Agricola. With a special study of the purpose of these works and the conditions of the period of Roman History. First term, two hours. Senior elective. (Church and Brodribb's Agricola and Germania.)

81. Lucretius. Hours to be arranged (1)

Selections from De Rerum Natura with a survey of Roman Philosophy. Second term, two hours. Elective. (Lee's Lucretius, Books I-III.)

82. Roman Antiquities.

Assigned topics will be treated in original dissertations to be read before the class, throughout the year in connection with the Senior courses in Latin. Required of such Seniors as intend to study theology; elective for others.

83. Latin Literature in English.

For this course no knowledge of Latin is necessary. It will treat the subject as literature to be studied in standard and idiomatic English translations. Elective for all Juniors and Seniors.

84. Roman Law.

An elementary survey of the subject with special reference to its relations to modern law. Elective for Juniors and Seniors taking Latin. (Hadley's Lectures and Robinson's Roman Law.)

85. Early Latin.

Latin Inscriptions. Elective for Juniors and Seniors taking Latin. (Lindsay's Latin Inscriptions.)

86. Roman Archaeology.

Elective for Juniors and Seniors taking Latin.

ENGLISH

PROF. SIMPSON AND MR. BROWN

The courses in English are planned to give in the first two years a thorough drill in composition, oral and written; some acquaintance with the fundamental ideas of literary criticism as applied to the principal types of verse and prose; and a general knowledge of the historical outlines of English literature.

In choosing their electives in the Junior and Senior years students are advised to supplement the required courses (the drama and the novel) by taking one or more courses in English poetry. Students who entered with poor preparation in composition and have not made up the deficiency to their own satisfaction are advised to take that subject as an elective.

ENGLISH COMPOSITION

90. Freshman Composition. First Section, T. 11, Th. 11 (2). Second Section, W. 11, F. 11 (2)

PROF. SIMPSON

The theory and practice of exposition, first term, and narration and description, second term. The reading and analysis of selected classics as illustrations of the principles of rhetoric. Many short themes and longer ones at intervals. Both terms, two hours.

91. Sophomore Composition. Second Term, M. 8.40 (½)

PROF. SIMPSON

The writing of from fifteen to twenty long themes. Criticism in the class and in conferences. Students in this course are expected

to learn the use of the indexes and bibliographies in the college library and to gather material there. One hour, second term.

92. Advanced Composition. First Term, hours to be arranged (1)

PROF. SIMPSON

An elective course for Juniors and Seniors arranged to suit the needs and desires of those who apply. First term, two hours.

101. Journalism. Second Term, hours to be arranged (1)

PROF. SIMPSON

A course in the writing of news, including brief items, news-stories, interviews, and editorials. Elective for Seniors and Juniors. Two hours, second term.

ENGLISH LITERATURE

93. American Poetry. First Term, M. 10 (½)

PROF. SIMPSON

Readings in Bryant, Poe, Emerson, Longfellow, Whittier, Holmes, Lowell, Whitman, and Lanier. Especial attention to the technique of verse and the types of poetry. Freshman required.

94. History of English Literature. M. 3, F. 8.40 (2)

PROF. SIMPSON

Lectures, study of a text-book such as Crawshaw's, or Pancoast's English Literature, and readings in poetry and prose. First term and second term, Sophomore, two hours.

95. The Rise and Development of the English Drama. T. 8.40; F. 1 (2)

MR. BROWN

The reading of representative pre-Shakespearean and post-Shakespearean plays, and all the plays of Shakespeare. Lectures on modern English drama. A study of modern dramaturgy. Both terms. Junior required, of A.B., and Ph.B. students, two hours.

96. The Rise and Development of the English Novel. T. 3, Th. 1 (2)

PROF. SIMPSON

The reading of typical prose fiction of each century and period from Malory to Thomas Hardy. First and second terms, Senior elective, two hours.

97, 98. The Romantic Poets and the Victorian Poets. W. 3, F. 8.40 (2)

MR. BROWN

The Romantic Poets. *First term.* The Victorian Poets *Second term.* Lectures on the growth of the Romantic Movement in England, France and Germany. Extensive readings in the poetry of Burns, Coleridge, Wordsworth, Byron, Shelley, Keats, Tennyson, Browning, Arnold, Rossetti, Morris, Swinburne, Kipling. A study of representative criticisms of the poets read. Both terms, Senior elective, two hours.

99. Modern Essayists. First Term, M. 2, F. 1 (1)

PROF. SIMPSON

Macaulay, Lamb, Ruskin, and others are studied with attention to subject-matter, structure, and style. First term, Senior required for A.B. and Ph.B. students, two hours.

100. Spenser. Second Term, M. 2, F. 1 (1)

PROF. SIMPSON

The Faerie Queene and the lyrical poems of Spenser. This course is intended to exemplify the thorough study of an author and his time. Second term, Senior required for A.B. and Ph.B. students, two hours.

PUBLIC SPEAKING

102. Elementary Course. Second Term, I Section, T. 10; II Section, T. 11 (½)

MR. BROWN

Training in public reading. Attention is paid to individual defects. Second term, Freshman required, one hour.

103. Advanced Course. First Term, M. 8.40 (½)

MR. BROWN

A study of the theory of public speaking. Delivery of committed selections. First term, Sophomore required, one hour.

104. Oratory. T. 1 (1)

MR. BROWN

A practical course in public speaking. The aim of this course is to enable the student to speak fluently and effectively before an audience. Both terms, Junior and Senior elective, one hour.

105. Advanced Oratory. Hour to be arranged (1)

MR. BROWN

The preparation and delivery of orations and addresses for special occasions. Extemporaneous speaking. An analytical study of the world's best orations. Elective for Seniors who have taken Course 104. Both terms, one hour.

GENERAL LITERATURE

106. World Literature. F. 3 (1)

MR. BROWN

The reading of the world's great books in the best translations. Homer's Iliad and Odyssey, Dante's Divine Comedy, Milton's Paradise Lost, Cervantes' Don Quixote, and Goethe's Faust will be read and discussed. Lectures on European Epics and European Literature to the close of the Renaissance. Studies in Comparative Literature. Both terms, Senior and Junior elective, one hour.

107. Contemporary Literature. Hour to be arranged (1)

MR. BROWN

A survey of contemporary European and American Literature. The reading of selected works of Turgenev, Tolstoi, Sienkiewicz, Zola, Loti, Fogazzaro, Lagerlöf, Björnson, Ibsen, Hauptmann, Sudermann, Rostand, Maeterlinck, D'Annunzio, Echegeray, and leading British and American authors of the present day. Both terms, Senior and Junior elective, one hour.

ELECTIVE COURSE OMITTED IN 1914-1915

101. Eighteenth Century Essayists. (1)

PROF. SIMPSON

The growth of the periodical essay, and the social and literary ideals of the period. First term, Senior, two hours. This course alternates with Modern Essayists.

THE MODERN LANGUAGES.

PROFESSOR WACKERNAGEL, MR. FRITSCH AND MR. BROWN.

The study of the Modern Languages is a regular part of the College Course. This department receives a full proportionate share of time and attention, and stands upon the same basis in this respect as Greek, Latin, or English.

German, French, Spanish and Italian are taught both as living languages to be acquired as a medium of communication and as treasure-houses of scientific, theological and literary material, the key to whose wealth must be owned and readily used by the post-graduate student. Our experience enables us to assert that any student of respectable intellect and industry can acquire the ready use of these languages for conversation, business, or discourse, by embracing the advantages offered him in this department.

In addition to this practical study, a considerable portion of time is given to the direct study of Literature, and of selected works of the greatest authors.

GERMAN DEPARTMENT

PROF. WACKERNAGEL AND MR. FRITSCH

110. T. 2, W. 8.40 (2)

MR. FRITSCH

Joynes and Wesselhoeft's German Lesson Grammar, Part 3. Schrakamp's Deutsche Heimat. Heyse's Hochzeit auf Capri. German Bible. Exercises in German script and memorizing of German poems. Two hours, Freshman required, unless French is taken.

111. M. 2, W. 11 (2)

MR. FRITSCH

Gore's German Science Reader. Required of Scientific and Philosophical Freshmen. Two hours a week.

112. M. 1, Th. 11 (2)

MR. FRITSCH

Lambert's Alltaegliches. Schiller's Wilhelm Tell. Schiller's Ballads. Sophomore. Two hours a week. Required of Philosophical students; elective for others.

113. T. 8.40 (1)

MR. FRITSCH

Lassar-Cohns Die Chemie im Taeglichen Leben. Required of Scientific and Philosophical students, Sophomore year. One hour a week.

114. W. 1, Th. 2 (2)

MR. FRITSCH

Lessing's Minna von Barnhelm. Goethe's Iphigenie auf Tauris. Freytag's Die Journalisten. Essays. Junior Philosophical and Classical elective. Two hours a week.

115. M. 8.40; F. 8 (2)

PROF. WACKERNAGEL

Wait's German Science Reader. Dippold's Scientific German Reader. Junior Scientific elective. Two hours a week.

116. T. 10, F. 3 (2)

PROF. WACKERNAGEL

Priest-Klee, History of German Literature. Fossler's German Idioms and Conversation. Freytag's Doktor Luther. Max Mueller's Deutsche Liebe. Essays. Senior Classical and Philosophical elective. Two hours a week.

117. M. 3, W. 11 (2)

PROF. WACKERNAGEL

Bock-Camerer, Bau, Leben und Pflege des menschlichen Koerpers, Koelsch, Biologische Spaziergänge. Dubois-Reymond's Vorträge. Senior Scientific elective. Two hours a week.

ROMANCE LANGUAGES.

FRENCH

PROF. WACKERNAGEL

130. Hours to be arranged (2)

Aldrich and Foster's Grammar, and Reader. Freshman Classical elective. Two hours a week.

131. M. 11, F. 2 (2)

Aldrich and Foster's Grammar. Mariotte-Davis' Elementary Scientific Reader. Required of Scientific and Philosophical Freshmen. Two hours a week.

132. M. 1, Th. 11 (2)

Bacon, Une Semaine à Paris. Laboulaye's Contes Bleus. Feuillet's Roman d'un Jeune Homme Pauvre and other works. Sophomore Classical elective. Two hours a week.

133. M. 2, Th. 8.40 (2)

Bacon, Une Semaine à Paris. Bowen's Scientific Reader. Required of Philosophical Sophomores; elective for others. Two hours a week.

134. M. 10, F. 11 (2)

Newson's French Daily Life. Racine's Athalie and Esther. Maupassant Contes Choisis. Sand's La Mare au Diable. Classical and Philosophical Junior elective. Two hours a week.

135. T. 11, F. 10 (2)

Newson's French Daily Life. Dike's Science French Prose. Scientific Junior elective. Two hours a week.

136. Th. 1, F. 8.40 (2)

Dowden's History of French Literature. Halevy, L'Abbé Constantin. Moliére, L' Avare. Chateaubriand's Atala. Classical and Philosophical Senior Elective. Two hours a week.

137. Hours to be arranged (2)

Foncin, Le Pays de France. Faideau and Robin, L'Homme. Scientific Senior elective. Two hours.

SPANISH

PROF. WACKERNAGEL

150. M. 8, Th. 10 (2)

Hills & Ford, Grammar. Giese & Cool, Spanish Anecdotes. The Spanish New Testament. Elective for all Juniors. Two hours a week.

151. T. 8, Th. 8 (2)

Fitzmaurice-Kelley's History of Spanish Literature. Bonilla's Daily Spanish Life. Taboada's Cuentos Alegros. Moratin, El Si de las Ninas. Elective for all Seniors. Two hours a week.

ITALIAN

MR. BROWN

160. (1)

Sauer's Italian Conversational Grammar. Bowen's Italian Reader. Selections from Dante's Inferno. Both terms, Junior and Senior elective, one hour.

HISTORY.

MR. JAMES H. S. BOSSARD.

The aim of the Department of History is three-fold:

(1) To give the student a comprehensive and progressive survey of the historical development of Western Europe.

(2) To familiarize the student with our American History from the early days of colonization down to the present time, with special attention to the economic and social life of the people.

(3) To keep in mind the continuity and evolution of history so as to give the student that sense of historical perspective without which he cannot fathom the significance of modern movements.

All of the courses are lecture courses, supplemented by collateral readings and reports.

170. Europe Since 1815. W. 1, F. 1 (2)

An account of some of the important political events in European history since 1815, such as the Congress of Vienna and the movement of reaction; the revolutionary movements of 1830 and 1848; the union of Italy; the reconstruction of Germany and founding of the German Empire; the British Empire in 19th century; the rise of the Balkan States; the expansion of Europe in Asia and Africa; partition of Africa. Special emphasis laid upon social conditions and industrial changes. Two hours throughout the year. Required of all Freshmen.

171. The Rise and Development of the Medieval Church. M. 10, Th. 10 (2)

Early organization of the Church; the Persecutions; Christianity as the state religion; Development of the papal power; Monasticism and conversion of northern Europe; nature of the Medieval Church—its powers, jurisdiction and influence; heresies and the friars; the Popes at Avignon; the Great Schism. Two hours a week throughout the year. Required of all Sophomores.

172. Medieval Life and Institutions. First Term, T. 3, W. 2 (1)

A discussion of some of the more important institutions of the Middle Ages, such as the judicial system of the Germans, the revival of the Roman Law, feudalism, rural and town life, the communes, education and the Universities, and the Renaissance movement. Two hours, first term. Required of A.B. and Ph.B. Juniors. Elective for others.

173. Studies in the Reformation Period and the French Revolution. Second Term, T. 3, W. 2 (1)

A study of the intellectual, social, economic and political movements which caused the Reformation; significance and results of

the movement. The causes and courses of the French Revolution, its effect upon France and other countries of Europe, Napoleon and the Napoleonic wars. Two hours a week. Second term. Required of A.B. and Ph.B. Juniors. Elective for others.

174. The Historical Development of the American Colonies Down to 1789. T. 11, F. 10 (2)

European background and underlying motives of early voyages of discovery and exploration; the chartered companies; social, economic and religious background for English colonization; the colonial life in its various aspects; the larger phases of the colonial wars; side lights upon the Revolutionary period; economic adjustment after the war. Two hours a week throughout the year. To be given in 1914-1915.

175. American History Since 1789. (2)

Expansion of the United States; acquisition and use of public domain; movements of population; slavery, its abolition and the problems of Reconstruction; industrial, financial and commercial growth of the country; the life of the people. Two hours throughout the year. To be given 1915-1916.

One of these two courses must be taken by all A.B. and Ph.B. students in Junior or Senior year. Both may be taken.

THE DEPARTMENT OF SOCIOLOGY AND ECONOMICS.

MR. JAMES H. S. BOSSARD.

The aim of this department is three-fold:

(1) To give the student, as a general foundation, a survey of the principles which govern our economic and social life.

(2) To give, as far as possible, an insight into the practical problems which confront the American people; an insight which no man in our time can afford to be without, especially if he lays any claim to education and culture, and an insight which will foster study, deliberation and observation in later and maturer years.

(3) To give the foundation and elementary drill for post-graduate work.

190. Economics. T. 10, Th. 11 (2)

A study of economic theories and principles. Discussion of practical problems, such as the Conservation of Natural Resources; the Public Health Movement; the Risks of Labor; Child Labor; Women in Industry; Unemployment; Business organization; Trusts; the Tariff; the Currency Problem; the Labor Problem; Socialism; etc. Two hours a week throughout the year. Required of Ph.B. Juniors. Elective for all upper classmen.

191. Sociology. M. 11, T. 2 (2)

This course is designed to cover briefly the most fundamental points in sociological theory. Study of cause and effect in society. The factors of physical environment, heredity, psychological influences are considered. Immigration and racial problems. Problem of social debtor classes. Purposive organizations for social betterment are reviewed and practical problems considered. Two hours a week throughout the year. Required of Ph.B. Seniors. Elective for other Seniors.

192. Studies in the Rural Field. Hour to be arranged (1)

This course is primarily intended for those students taking agricultural chemistry or primarily interested in rural work. An account of changes in population; farm ownership and its problems; the country school; the country church; social life; the rural health movement; the Grange; constructive programs. One hour a week throughout the year. Elective for Juniors and Seniors. Hour to be arranged at the convenience of students and instructor.

ELECTIVE TO BE GIVEN 1915-1916

193. Social and Vital Statistics. (1)

This course aims to prepare the student to collect, with accuracy and completeness, the data for social work as well as to arrange them, and make use of most important material in the fields of economic and sociological research. Special emphasis is laid upon the need for caution in use of statistics. Fundamental principles are developed in conection with practical problems.

Elective for Juniors and Seniors. One hour a week throughout the year. Hour to be arranged.

MATHEMATICS.

PROFESSOR BAUMAN.

This department aims at the following results:

1. To train the mind to reason clearly and logically.

2. To teach the student to be exact, quick of comprehension, and systematic in presentation.

3. To impart facility in applying mathematical principles to practical problems.

4. To lay the foundation for future special work in the various branches of the subject.

200. Higher Algebra. T. 8.40; Th. 8.40 (2)

Radicals, imaginary quantities, quadratic equations, proportion, progressions, binomial theorem, logarithms, permutations and combinations, series, theory of equations, including graphical representation of functions, and Horner's Theorem. Two hours a week for the whole of the Freshman year. Wentworth's Higher Algebra.

201 and 202. Solid Geometry and Plane Trigonometry. M, 3 (1)

Solid Geometry. Lines and planes in space, polyhedral angles, prisms, pyramids, similar polyhedrons, cylinders, cones, prismatoid formula, numerous practical problems. One hour a week for the Freshmen during fall and winter. Wentworth's Revised Solid Geometry.

Plane Trigonometry. Trigonometrical functions, solutions of right triangles, practical applications. One hour a week for Freshmen during the spring. Wentworth's Plane Trigonometry.

203, 204, 205, 206. W. 8.40; F. 2 (2)

203. **Trigonometry.** Goniometry, solutions of plane oblique triangles, numerous practical applications in the measurement of heights and distances, right and oblique spherical triangles, application to astronomical problems. (See under 206.)

204. **Surveying.** Land surveying, triangulation, leveling, railroad surveying, many practical problems and some illustrative field work. (See under 206.)

205. **Spherical Geometry.** Sections of spheres, tangents to spheres, spherical triangles, measurement of spherical surfaces and volumes, practical applications. Wentworth's Revised Solid Geometry.

206. **Navigation.** Plane sailing, parallel and middle latitude sailing, traverse sailing; some nautical astronomy. Wentworth's Trigonometry, Surveying and Navigation. The last four courses are taken in succession twice a week during the Sophomore year.

208. Analytical Geometry, Plane and Solid. T. 10, Th. 10 (2)

This is an extensive course based on Wentworth's "Analytical Geometry." Elective for Juniors. Two hours a week throughout the year.

209. Calculus. Th. 2, and two more hours to be arranged (3)

Differentiation of algebraic and transcendental functions. Integration of monomials, binomials, rational fractions and infinite series, together with double integration and many practical applications in the calculation of areas, volumes, surfaces, moment of inertia, etc. Three hours a week. Elective for Seniors. Osborne's Differential and Integral Calculus.

210. General Astronomy. Hours to be arranged (2)

This course includes a thorough study of the facts and theories of astronomy together with mathematical demonstrations. The study is illustrated by field work with a good portable four-inch telescope. Two hours a week during Senior year. Young's General Astronomy. Elective.

PHYSIOGRAPHY AND METEOROLOGY

211. Physiography. First Term, hours to be arranged (1)

This course is elective and is especially intended for those who owing to circumstances cannot elect Geology, Astronomy, and Meteorology as principal subjects, and yet desire a fair knowledge of the facts and principles of these sciences. Two hours a week for the first term of the Junior year. Hinman's Eclectic Physical Geography.

212. Meteorology. Second Term, hours to be arranged (1)

This embraces the elements of the science as given in Davis' Elementary Meteorology, together with practical work. Elective, two hours a week in the second term of the Junior year.

DEPARTMENT OF NATURAL AND APPLIED SCIENCE.

PHYSICS AND CHEMISTRY.

PROFESSOR REESE AND MR. FASIG

The course in Physics and Chemistry is intended to be intensive rather than extensive. The endeavor is made to teach *thoroughly* and impart a clear-cut knowledge of the *fundamentals* of the above-named sciences. The attention of the student is also directed to their practical applications.

The primary object of the course in physics and chemistry is to furnish the classical student a basis for the explanation of the phenomena presented to him in his daily life. The elective work will prepare the student for advanced work after graduation.

In the laboratories the student receives the *personal* attention of the professor and instructor during the laboratory period. The laboratories are open, however, from nine a. m. to five p. m. every day, so that work may be done during any part of the day, provided that it will not interfere with other classes.

Stress is laid on the keeping of a notebook on both the lecture and laboratory work. The notebooks are carefully corrected and returned to the student with suggestions and references to the work in hand. If the laboratory work be poorly done, it will be repeated until good results are obtained. But if after earnest effort the pupil cannot find the error the professor will review with him that part of the work in which the error occurs.

The department has a good equipment. A stereopticon with vertical attachment, optical bench and accessories for same, together with slides illustrative of physics and chemistry, especially the industrial side, is at the disposal of the department.

It is further equipped with a reflecting goniometer by Fuss, refractometers, spectroscope, polariscope, etc.

PHYSICS

220. General Physics. M. 11, W. 8.40 (2)

PROF. REESE

Lectures and recitations. The endeavor is made to present the subject in such a way that its different branches may be correlated in one science of energy. The lectures are illustrated and all the experiments planned to keep the above object in view.

The phenomena and practical applications based on physical principles with which the student comes in daily contact are especially emphasized. Junior year. Required of all students.

221. Laboratory Work in General Physics. W. 1-5 (2)

PROF. REESE AND MR. FASIG

The experiments are for the most part quantitative in character and give practice in mechanics, heat, light, electricity and sound. The laboratory work will be prefaced by several lectures on methods, determination and use of data, graphic methods, interpretation of results, etc. Junior year. Required of B.S. students, elective for others.

222. College Physics. M. 10, T. 10, W. 1-5 (4)

PROF. REESE AND MR. FASIG

Standard college course with laboratory work. Senior year. Required of Scientifics or elective for students with equivalent of 220 and 221.

CHEMISTRY

230. General Course. T. 1, Th. 1 (2)

MR. FASIG

This course constitutes an introduction to the study of chemistry. No previous knowledge of the subject will be assumed. The work of the first term is devoted to the laws and theories on which the science is built. The remainder of the year is devoted to the study of the metals, their occurrence, preparation and industrial value. Sophomore year. Required of all A.B. and Ph.B. students.

231. Laboratory—General Chemistry. T. 2-5, Th. 2-5 (2)

MR. FASIG

The work will be devoted particularly to the study of acids, bases, salts, air, water, soil and a short course in the separation of the metallic and acid radicals. Sophomore year. Required of all A.B. and Ph.B. students.

232. General Chemistry for B. S. Students. Th. 10, F. 8.40 (2)

PROF. REESE

This is a more advanced and thorough course than 230. Required of all Freshmen B.S. students throughout the year.

233. Laboratory—General Chemistry for B. S. Students. T. 1-4, Th. 1-4 (2)

PROF. REESE AND MR. FASIG

This course is particularly designed to supplement course 232. It is designed to illustrate and elucidate the fundamental principles of the science; to exemplify the simpler methods of chemical preparation and to develop the manipulative skill of the student. First semester. Required of B.S. Freshmen.

234. Qualitative Analysis. T. 1-5, Th. 1-5 (2)

PROF. REESE AND MR. FASIG

This is mainly a laboratory course, with frequent conferences and quizzes on the chemical reactions involved and lecture demonstrations on the practical work. The separation of the more common metallic and acid radicals forms a basis of the laboratory work. The endeavor is made to have the work so done that the student will be enabled to analyze any mineral or inorganic technical product, soluble or insoluble. Prerequisite 233. Second semester. Required of B.S. Freshmen.

235. Quantitative Analysis. Th. 1-5 (2)

PROF. REESE AND MR. FASIG

The course will be divided into three parts: (1) Calibration of weights, flasks, etc. (2) Volumetric analysis. (3) Gravimetric analysis. While the more familiar determinations in these groups will be required, the amount of ground covered in each will depend on the student's ability and the time he can devote to the subject. Prerequisite 232, 233, 234. Required of scientific Juniors, elective for others.

236. Organic Chemistry. W. 11, F. 10, T. 1-4, Th. 1-4 (5)

PROF. REESE

Lectures, recitations and laboratory work. The lecture and laboratory courses combined give a thorough knowledge of the elementary compounds of carbon. Sophomore year. Required of Scientifics; elective for others. Text-book: Organic Chemistry, Perkins and Kipping. Prerequisite 232, 233.

237. Organic Synthesis. Hours to be arranged (2)

MR. FASIG

Senior elective. Prerequisite 232, 233, 234, 235, 236.

238. Technical Analysis. Hours to be arranged (1½)

PROF. REESE AND MR. FASIG

Cement, clays, iron, steel, soap, oils, fuels, ores, and gas analysis. In many of the above, such as cement and clays, the physical tests will also be made. Prerequisite 232, 233, 234, 235. Senior elective.

239. Electrolytic Analysis. Hours to be arranged (1½)

MR. FASIG

A comparison of the various methods of separation will be made, as well as the analysis of alloys and the determination of the cations and anions, oxidizations by the electrical current and combustion of organic compounds by same means. Prerequisite 232, 233, 234, 235. Senior elective.

240. Agricultural Chemistry. T. 11, F. 11 (3)

Laboratory hours to be arranged

The formation of the soil, etc., discussed from the geological, physical and chemical viewpoint. Laboratory work includes the analysis of soil, manures, fertilizers, and dairy products. Elective either Junior or Senior year.

DEPARTMENT OF BIOLOGY.

PROFESSOR BAILEY.

The courses of the Biological Department have been so arranged as to offer work to the students throughout the Junior and Senior years.

The courses have been so designed as to meet the requirements of those students who desire general collegiate culture and also those who expect to enter the professions of medicine and teaching.

The work in Mammalian Anatomy and Embryology has been especially arranged for prospective medical students. All of the other courses are equally valuable to both the general and special students.

Throughout the Biological courses emphasis will be laid upon the economic features of the science and whenever possible such forms of life will be chosen for study as possess economic as well as systematic value. Especial pains will be taken to familiarize the student with those forms of animals, insects, trees and flowers which bear some relation to man. The purpose of the entire Biological course is to offer such information and present such opportunities to the students as will lead to practical benefit in after life.

Considerable Biological material has been mounted up for class demonstration purposes and will be used regularly in each of the courses. A large number of lantern slides has also been accumulated and in each of the courses the class and laboratory work will be supplemented by a number of illustrated lectures.

Following is a brief outline of the courses offered:

SOPHOMORE YEAR

It has been found best to divide the work of this year into the following three courses, each of which will cover a period of three months' time. In order to conform to the general two-term plan, however, the first two courses are indicated as first term subjects, although, in reality, the second course will overrun the mid-year examination period.

250. Invertebrate Zoology. W. 1-4 (2)

The morphology, habits, life history and classification of representative invertebrate animal forms will be studied. Emphasis will be laid upon the principles of heredity, the evidence and factors of evolution and interesting instances of parasitism. First term, Sophomore. One-half day per week.

251. Economic Entomology. W. 1-4.

The life histories of each of our important insect species (both beneficial and injurious) will be taken up. The student will be taught effective methods of control of all our insect pests. In so far as possible the insect forms will be observed in the field. A mounted collection of 25,000 forms will greatly aid the student in this course. First term, Sophomore. One-half day per week.

252. Vertebrate Zoology. W. 1-4

Representatives of the great classes of fish, amphibians, reptiles, birds and mammals will be studied and the comparative morphology of the various systems and organs noted. Dissections of various animals will be required. The evolution of the various organs will be noted and the habits and life histories of the different groups will be studied in so far as time will permit. The Biological Museum contains mounted or preserved specimens of practically all of the local species of vertebrates. Second term, Sophomore. One-half day per week.

JUNIOR YEAR

The work of this year is divided into two courses, each of which covers a half year's time.

253. Cryptogamic Botany. M. 1-4. Other hours to be arranged (4)

A study of myxomycetes—those organisms on the borderland of zoology and botany: algae, fungi, mosses, ferns, etc. Such forms will be selected for study as bear an economic relation to man and special attention will be directed to such forms of fungal life as give rise to diseases of cultivated plants. First term, Junior. Two half days per week.

254. Phanerogamic Botany. M. 1-4. Other hours to be arranged.

A large portion of the time will be spent in the field. Efforts will be made so to familiarize the student with trees, shrubs and flowers that he will be able to recognize, name and classify all such within the region accessible for study. The field work will be supplemented by such laboratory instruction as will be necessary. Additions to the college Herbarium will be made, and personal collections of plant life by the students will be encouraged and required. Second term, Junior, Two half days per week.

SENIOR YEAR

The work of this year is divided into three courses, each of which will cover a period of three months' time. As in the case of Sophomore work, in order to adhere to the two-term plan, the first two courses are indicated as first term subjects, although the second course will actually overrun the mid-year examination time.

255. Bacteriology. F. 1-4. Other hours to be arranged (4)

Quantitative examination and isolation of the bacteria in water, milk, soil, air, etc., will be made by students taking this course. The

cause and prevention of disease, the problem of sewage disposal, the isolation and study of the various forms of bacteria in various water supplies, etc., are subjects that are included in this course. First term, Senior. Two half days per week.

256. Mammalian Anatomy. F. 1-4. Other hours to be arranged.

A dissection of the cat, and, if time permits, of man will be required. Each of the Mammalian Systems will be studied in detail. This course will give the student a close acquaintance with the structure of the human body. Vestigial tissues will be noted and their significance explained. Mounted skeletons, enlarged models, preserved dissections, charts, etc., offer excellent advantages to those electing this course. First term, Senior. Two half days per week.

257. Histology and Embryology. F. 1-4. Other hours to be arranged.

The principal animal tissues will be studied. The student will be taught methods of fixing, embedding, sectioning, staining and mounting of tissues. Microtomes, compound microscopes, etc., are available.

A study of the origin and development of the various organs of the frog, chick and man will be made. Problems relating to the maturation, fertilization and segmentation of the egg, the origin of the germ layers and the early development of the principal vertebrate tissues and organs are taken up. The student is required to incubate the egg of at least one vertebrate, and to imbed section and study the embryo of same. Second term, Senior. Two half days per week.

GENERAL BIOLOGY COURSE

258. Senior Lecture Course. F. 11 (1)

This course is designed to meet the needs of those students, who because of other requirements have not been able to elect the regular Junior and Senior Biological courses but who nevertheless desire to obtain a general knowledge of Biological principles and phenomena before leaving college. The course aims to cover, in brief fashion, all of the important phases of Biology. It is in no respect a substitute for the regular courses. An illustrated lecture will be given weekly. Subjects such as the following will receive attention: Botany, Bacteriology, Forestry, Plant Diseases, Zoology, Distribution of Plants and Animals, Economic Biology, Evolution, Paleontology, etc. Both terms, Senior. One hour per week.

DEPARTMENT OF GEOLOGY

PROFESSOR BAILEY

270. Geology. T. 1, Th. 8.40 (2)

The course in Geology is open to members of the Senior class. The course comprises work in structural, dynamic and historical Geology. Chamberlin and Salisbury's College Geology, supplemented by various National and State Geological Reports will constitute the text-book matter of the course. Constant use of the excellent collection of rock specimens in the Geological Museum will be made. Historical Geology is taken up during the last half of the year, and during this time frequent illustrated lectures will be given. Particular attention will be paid to the American Continent. Maps will be drawn, showing the relations of land and sea during each geological period, and the deposited strata and their included organisms will be carefully studied. A complete geological study of Lehigh County will be made, the class taking local field trips and noting outcrops of the different rock formations. A series of charts and a collection of named fossils greatly aids the students in comprehending the plant and animal life of past geological times. Both terms, Senior. Two hours per week.

PHYSICAL EDUCATION.

DR. KLINE AND MR. GEORGE M'CAA

The aim of this department is to guide the normal student to grow symmetrically and to advise the defective who are weak from heredity, poor development or ignorance how to correct these defects, and to quicken the mind to ready action through promptness in class drill.

The tabulations of the present system of medical examinations and physical measurements show the student wherein he exceeds or falls below the average. In addition to the general gymnasium exercises specific directions are given to overcome hereditary or acquired defects. The three-fold record of each student is tabulated and kept by the standard card system and at varying intervals revised by re-examinations.

Classified gymnastics and apparatus work are taught by the physical director. The well-equipped FonDersmith

Gymnasium, with adjoining baths, dressing room and lockers, is provided for this work.

A large field for base ball, foot ball and tennis courts offers the very best facilities for out-door athletics. Lectures on Social Evils and the Relation of their Effects to Heredity are delivered by the professor in charge.

The Freshmen are given two hours of strenuous Swedish gymnastic work, combined with lighter German work, to effect their physical upbuilding.

The Sophomores are given one hour apparatus work.

Additional and special training is offered to all upper class men.

LITERARY SOCIETIES.

Connected with the institution there are two Literary Societies whose exercises are regarded as an elective part of its curriculum. Every student is advised to be a member of one or the other of these, the Euterpean or the Sophronian, and to take part regularly in its exercises. Debates, declamations, speeches, essays, and the like, are required in these societies, and familiarity with the application of parliamentary law is obtained. Excellent libraries belonging to these societies are accessible to the members, and from time to time are increased by liberal additions of current and standard literature. The sessions of the societies are held in their respective halls every Wednesday morning during term time, and attendance is obligatory upon the members. Students who do not join the literary societies are required to take additional courses in the English Department.

SPECIAL LECTURES.

A number of special lectures are delivered during the college year by persons eminent for ability in various directions; these are free to all students and alumni of the in-

stitution, and have been largely and profitably attended. This feature will be carefully maintained in the future as a source of instruction in specialties, in recent topics of interest, and for general information upon subjects not embraced in the ordinary department work.

LIBRARY AND READING ROOM

PROF. SIMPSON, LIBRARIAN

The College Library is open as follows: 11 to 12 a. m., 2 to 5 and 7 to 9 p. m., and Saturdays 9 to 11 a. m. All books are on open shelves freely accessible to all students. The professors of philosophy, history, sociology and English literature assign a large amount of reading to be done in the library; four or more copies of the most necessary books are provided for this collateral reading.

The books in the reading room, which is open at all times, include the latest edition of the Encyclopedia Britanica, other encyclopedias, Americana, International, Chambers, etc., Warner Library of the World's Best Literature, bound volumes of Harper's Magazine, numbers 1 to 103, and the revised edition of The Century Dictionary and Atlas. The periodicals in the reading room are as follows:

American Magazine, Atlantic Monthly, Century, Chautauquan, Collier's, Current Opinion, Dial, Educational Review, Forum, Harper's Weekly, Harper's Monthly, Independent, Judge, Literary Digest, Littell's Living Age, McClure's, Missionary Review, Nation, North American Review, Outlook, Popular Mechanics, Puck, Review of Reviews, Saturday Evening Post, Scientific American and supplement, Science, Popular Science Monthly, Outing, National Geographic, New York Times, Philadelphia Press, Ledger, and Record, Allentown Morning Call, Democrat, Item, and Chronicle and News, Yale Review, Daheim.

The following magazines and newspapers are kindly sent free:

Advocate of Peace, Commoner, Doylestown Daily Intelligencer, Hamburg Item, Northampton Democrat, American Economist, Our Dumb Animals, Reading Eagle, Locomotive, Public Service, S. Bethlehem Globe, Lutheran, Lutheran Observer, Lutheran Woman's Work, Luther League Review, Der Missionsbote, Foreign Missionary, Sweet Charity, Bible Student and Teacher, Outlook of Missions, Young Folks.

The total number of books accessioned to December 15, 1913, is 19,541; the number added exclusive of government publications is 421 since January 17, 1913. During the summer the librarian, with the diligent and expert assistance of Mr. Henry Moehling, 1917, completed the classification and shelf-list of the books in religion.

The most important benefactors of the library since January 17, 1913, are:

Euterpean Literary Society (90 volumes), Dr. J. A. W. Haas (34), Prof. H. D. Bailey (46), Dr. Jacob Fry Fund (32), Class 1900 (7), Dr. H. W. Elson (5), Class 1914 (4), an anonymous donor (15).

NEW BUILDINGS.

After occupying the buildings situated in the southeastern part of Allentown since 1867, Muhlenberg College has been moved to the western section of the city where it now possesses a site of seventy-two acres of land, on which a commodious modern college-plant has been built.

THE ADMINISTRATION BUILDING.

This building occupies the highest part of the new college grounds, facing south, and is 190 feet long and 65 feet wide, three stories high, with a basement. It is built of a pink granolithic stone, with Indiana lime-stone trimmings, in the Eng-

lish Renaissance style of architecture. The façade shows a central tower, which is flanked with gables on each end, the intervening wall being topped off with dormer windows.

The basement contains a gymnasium with bath and locker-rooms, a basket-ball room, bicycle and coat rooms, lunch room and Physical Director's room. The first floor contains a reception-room, offices for the President and Treasurer, the latter connecting with a fire-proof vault, chapel, and five recitation-rooms.

The second floor contains the library and reading-rooms, physical and biological laboratories, and four recitation-rooms.

The third floor contains two large literary society halls, and rooms for "The Muhlenberg," Press Club, Glee Club, museums of geology and botany.

The building is of what is known as "slow-burning construction," with iron staircases, heated by steam and lighted with electricity, supplied from a central plant. Its appointments and furnishings are modern throughout.

THE DORMITORIES.

The general scheme of the dormitories is that of a rectangle, following a typical Oxford or Cambridge system. They are divided into sections accommodating from twelve to sixteen students each, and are entered from the quadrangle through separate doorways, each section having its own hall and staircase with rooms on either side. All the sections are supplied on each floor with steam heat, electric light, hot and cold water, shower baths, and toilet-rooms.

The main entrance to the dormitories is flanked with towers which contain, on the first floor, an office, a reception-room, a janitor's room, and a baggage-room.

The front elevation of the principal dormitory is 183 feet long and three stories high. This building is called "Berks Hall," in honor of the Lutherans of Berks County, Pa.,

who have undertaken to raise $35,000 to pay for its erection. It accommodates seventy-five students.

Mrs. Anna Louisa Rhoads, of Reading, Pa., has erected an additional section along the eastern side of the rectangle as a memorial for her son, John Warren Rhoads.

Luther League Hall has been erected by the Luther Leagues of the Ministerium of Pennsylvania. This section of the Dormitory has begun the western side of the rectangle.

Three new sections of the dormitories have been added during the past year. These will be ready for occupancy in the fall of 1914.

POWER PLANT.

A completely equipped power-plant furnishes an ample supply of steam heat and electric light for all the buildings on the college grounds. In this building comfortable provision has been made for the chemical laboratory and dissection room.

THE COMMONS.

The Athletic Association has erected a beautiful, well-equipped and commodious commons, where all dormitory students are required to take their meals. The price of the board is $3.50 per week. No deductions from this price will be made except in cases where students are absent for one full week or more.

PRIZES.

During the year the following prizes have been announced, competition for which is subject to the rules of the Faculty, and the assigning of which is in the hands of committees appointed for this purpose. The decision will be announced on Commencement day. Friends of the institution are urged to increase the number of these prizes, especially for the lower classes.

The Amos Ettinger Honor Medal, to be assigned to that member of the Senior Class having attained the highest average grade during the year, in all his studies. Presented by Professor George T. Ettinger, Ph.D. ('80).

The President's Senior Prize. A prize of Ten Dollars to be awarded to that member of the Senior Class writing the best original essay in the department of philosophy. Subject for 1914: "Evolution and Purpose." Presented by President J. A. W. Haas, D.D., LL.D.

The Clemmie L. Ulrich Oratorical Prize. Twenty-five Dollars to that member of the Junior Class making the best speech in English, as to manner and matter, at the Junior Contest. Presented by bequest of Clemmie L. Ulrich, Annville, Pa.

A Second Junior Oratorical prize, given by the class of 1908, to be awarded to the man making the second best speech in English.

The President's Junior Prize. A prize of Ten Dollars to be awarded to that member of the Junior Class presenting the best original essay in the department of English. Subject for 1914: "The Realistic Novel of the Present Generation." Presented by President J. A. W. Haas, D.D., LL.D.

The Reuben D. Wenrich, M.D., Prize. A prize of Ten Dollars to be awarded to that member of the Sophomore Class having attained the highest average grade in all his studies.

The Reuben J. Butz Botanical Prize of Ten Dollars given to that student who makes the best collection of local flora (including ferns). Open to all students of Botany.

The Charles D. Boschen German Prize of Ten Dollars presented to that member of the Sophomore class making the best examination in such special work as may be assigned in the German Department.

The Dr. H. A. Jelly Prize of Five Dollars given to the Scientific student of the Sophomore class doing the best work in Scientific German.

The Freshman Prize in English. A prize of Ten Dollars to be awarded to that member of the Freshman Class presenting the best original essay on some subject based on the preparatory work in English. The object of this prize is to stimulate thorough preparation in English. Subject for 1914: "The Stories of Edgar Allan Poe." Presented by Mr. Luther FonDersmith, of Lancaster, Pa.

The Clayton K. Bernheim Biological Prize. A prize of Ten Dollars will be awarded to the student collecting the finest series of local vertebrates (including fish, amphibia, reptiles and mammals). The specimens must be properly classified and labelled. The material collected is to remain as a portion of the Biological Museum.

The Sociological Prize open for Juniors and Seniors is ten dollars. It is offered by the Class of 1912. The subject for 1914 is: "The Outlook for Industrial Peace."

THE MASTER'S DEGREE.

According to the present rules of the College, graduates of good moral character, who apply for the Master's degree in Arts or Science, must pursue a year's work under the supervision of the Faculty, and present an acceptable typewritten or printed thesis.

DEGREES CONFERRED AT COMMENCEMENT

At the annual Commencement, held June 12, 1913, the following Degrees were conferred:

Doctor of Divinity

Revs. F. F. Fry, Rochester; E. F. Keever, Utica; George Gebert, Tamaqua; I. B. Kurtz, Pottstown; O. E. Pflueger, Womelsdorf; C. M. Jacobs, Dean Graduate School, Mt. Airy Theological Seminary, Philadelphia.

Doctor of Laws

Augustus Downing, Assistant Commissioner of Education, Albany, New York.

Doctor of Literature

Rev. W. F. Curtis, President Allentown College for Women; Prof. G. S. Kresley, Kutztown State Normal School.

THE ADMINISTRATION OF THE COLLEGE.

GOVERNMENT.

In the administration of the government of the College, no unnecessary or arbitrary regulations are established, but only such laws are insisted upon as are necessary for the common life of Christian gentlemen. No one whose influence is against the general order of the College can expect to continue in attendance.

Whenever dismissal is necessitated as the due punishment corresponding to the offense, all advantages are forfeited. Severer discipline is however avoided, if it be in any way possible.

REGISTRATION.

On the first day of the fall term every new student shall report in person at the office of the Treasurer before 1 p. m. and register his full name and home address, as well as the course he expects to take.

A registration fee of $5.00 will be required in advance, which sum shall be credited to the student's account, in case of his admission to College.

ELECTIVES.

On or before June 1st of each year, every student shall hand to the Dean a list of the subjects that he elects for the following year, which subjects thus become a part of his regular work. All such elections are subject to the approval of the Faculty.

EXAMINATIONS.

All the classes are examined twice a year, and the results made to count as a proper factor in the class standing.

TERM REPORTS.

Reports of standing in class, conduct, attendance, and the like, are sent to parents or guardians after each examination; and if necessary, special correspondence is had in the intervals.

SCHOLARSHIPS.

Any individual or congregation contributing $1000 to $1500 to the College will receive a permanent scholarship, which secures to the contributor, his assigns, etc., the perpetual right of educating one student in the institution free of expense for tuition and proportionate charges in the Administration Building.

The following is a list of donors having procured such scholarships:

Hon. S. A. Bridges, Allentown, Pa.
James K. Mosser, Allentown, Pa.
Andrew S. Keck, Allentown, Pa.
Thomas Keck, New York, N. Y.
Horatio Trexler, Reading, Pa.
William Saeger, Allentown, Pa.
Alfred G. Saeger, Allentown, Pa.
Charles Burkhalter, New York, N. Y.
Amos W. Potteiger, Reading, Pa.
Mrs. Sarah Miller, Allentown, Pa.
A. Stanley Ulrich, Esq., Lebanon, Pa., and Rev. Aaron Finfrock, Reading, Pa.
A. S. Shimer, Easton, Pa.
John Wagner, Hellertown, Pa.
William A. Arnold, Reading, Pa.
Samuel H. Kutz, Reading, Pa.
Robert H. Sayre, South Bethlehem, Pa.
Henry Stine, Fogelsville, Pa.
Jacob Fegely, Pottstown, Pa.
George H. Reinoehl, Lebanon, Pa.
Edward S. and Sarah Wertz, Reading, Pa.
Charles A. and Annie D. T. FonDersmith, Lancaster, Pa.
John E. Lentz, Allentown, Pa.
Mrs. Caroline Freudenberger, Tamaqua, Pa.

Reuben D. Wenrich, M.D., Wernersville, Pa. This Scholarship has been increased, by the donor, to $1,500.

Rev. Dr. John W. and Mary Sener Rumple Scholarship, endowed by the Rev. John W. Rumple. Value, the interest of $1,500.

St. John's Evangelical Lutheran Church, Allentown, Pa.

Trinity Evangelical Lutheran Church, Reading, Pa., (two owned by the Congregation, and one of $1,250 endowed by the Sunday-school, in memory of Mrs. Sidley).

St. James' Evangelical Lutheran Church, of Reading, Pa., (two owned by the Congregation).

Emanuel Evangelical Lutheran Church, of Pottstown, Pa.

St. John's English Reformed Church, of Allentown, owns the *Frank Erdman Cooper Scholarship,* given to it by C. W. Cooper, Esq., in memory of his son.

The *Luther P. Keller, Jr., Memorial Scholarship,* of St. John's Ev. Lutheran Church, Philadelphia, Pa., was endowed by Luther P. Keller in memory of his son.

The *Henry S. Neff, M.D., Memorial Scholarship,* of St. John's Ev. Lutheran Church, of Philadelphia, Pa., was endowed by George Rugan Neff in memory of his son.

The *Frank Rugan Neff Memorial Scholarship,* of St. John's Ev. Lutheran Church, of Philadelphia, Pa., was endowed by Julietta S. Neff in memory of her son.

The *Henry Melchior Muhlenberg Scholarship* was endowed by Mrs. Mary A. Rogers and Mrs. E. M. Bailey and her son James Muhlenberg Bailey, of New York, in honor of their ancestor, the Patriarch of the Lutheran Church in this country.

The *Henry and Anna Mary Romig Memorial Scholarship* was endowed by Mrs. Isaac Fegely, of Pottstown, Pa., in honor of her parents.

The *Allentown High School Scholarship* is vested in the Public School Board of Control, of Allentown, and is open annually to competition on the part of graduates of the High School.

The *Clemmie L. Ulrich Scholarship* was left by bequest for the use of the Ev. Lutheran Ministerium of Pennsylvania.

Charles Roeller Himmelwright Memorial Scholarship of St. John's Evangelical Lutheran Church, of Quakertown, Pa., endowed by Mrs. Susan Himmelwright in memory of her husband.

The Frank R. Nusbaum Scholarship, of Trinity Evangelical Lutheran Church, Lehighton, Pa., endowed by Mr. Frank R. Nusbaum. Value, the interest of $1,400.

The W. J. Andres Scholarships. Four scholarships, each the interest on $1,500, given by the bequest of Rev. W. J. Andres, especially for students preparing for the ministry.

The *Stephen A. Repass Memorial Scholarship* of St. John's Lutheran Church, Allentown, Pa. Value, the interest of $1,500.00.

The Lizzie M. George Scholarship, given by Mrs. Lizzie M. George, of Annville, Pa. Value, the interest of $1,500.00.

The Aaron B. Walp Scholarship given by Mr. Aaron B. Walp, of Trinity Church, Quakertown, Pa. Value, the interest of $1,500.

The Martin Luther Trexler Scholarship given by Rev. D. D. Trexler in memory of his son Martin Luther Trexler. Value, the interest of $1,500.

HIGH SCHOOL SCHOLARSHIPS.

The Board of Trustees has also granted a scholarship, representing an annual credit of $50 for tuition, to each of the following High Schools:

The Reading High School.
The Lebanon High School.
The Easton High School.
The Catasauqua High School.
The Hazleton High School.
The Kutztown Normal School.
Millersville Normal School.
Perkiomen Seminary, Pennsburg, Pa.
Lerch's Preparatory School, Easton, Pa.
Bethlehem Preparatory School.

THE CHAS. A. SCHIEREN FUND.

This fund is used to defray the tuition, and if necessary the expenses, of students who have in view the English Lutheran Ministry. The income of this fund will become available in a few years.

It is hoped that others will follow these examples, and take individual, memorial, or congregational scholarships, as thereby the owner of such a scholarship, apart from educating his own family, will aid worthy and talented but poor young men in securing an education that may fit them for eminent usefulness, and the congregations may have in perpetual training those of their sons that seek the work of the Gospel ministry.

EXPENSES FOR THE COLLEGIATE YEAR.

IN THE ADMINISTRATION BUILDING.

The expenses in the Administration Building will be $75.00, which includes tuition, the use of the College Library, Reading Room furnished and supplied with current literature by the College, Gymnasium, light, heat, and service. A deposit of $1.00 will be required for a locker key in the gymnasium, which will be refunded when the key is returned.

A Registration Fee of $5.00, a Library Fee of $2.00, and a Breakage Fee of $5.00 will be collected from each student when entering college for the first time.

An athletic fee of $7.50 will be collected annually from each student for the Athletic Association.

Tuition is represented by $50.00, which amount will be credited to those holding scholarships. Those holding scholarships of a larger amount will be credited with the full proceeds of such scholarships on account of expenses in the Administration Building.

Board can be secured at $3.50 per week at the Commons.

The charges for material and the use of instruments in the B. S. course are, for the Freshmen, $6.00; for the Sophomores, $6.00; and for the Juniors and the Seniors, $9.00. All Chemistry students, in all courses, are required to pay a fee of $5.00 and to deposit with the Treasurer $5.00 to cover possible breakages.

For special courses, embracing from one to three subjects of study, the charges will be $25.00 a year.

The scholastic year is divided into two terms for the payment of these charges, which are divided into two equal halves, namely, from September to the end of January, and from the first of February to Commencement. *The College charges of each term must be paid in advance.*

The members of the Senior Class, at the beginning of the second term, pay to the Treasurer an extra fee of five dollars, which will be refunded in case of failure to graduate.

IN THE DORMITORIES.

The room-rent in the Dormitories includes electric light, steam heat, hot and cold water, bath, and service. The rental is always for the whole room or suite, and for the time extending from Monday before the opening of College in September until Saturday after Commencement in June. In case of a double room or double suite, the rent per tenant is one-half the given rent. Students staying on the premises during the day and returning to their homes at night will be assigned either to a double room or to a double suite after all the resident students have been located, and charged one-fourth the rent.

All students must furnish their own rooms, and only iron bedsteads with all iron springs approved by the College are allowed.

The rooms are divided into four classes:

1. Single rooms for one tenant only, where the rent is $55.00.
2. Single suites, a study, and a bedroom, for one tenant only, where the rent is $87.50 on the first and second floors, and $67.50 on the third floor.
3. Double rooms, one large room for two tenants, where the rent is $90.00 on the first and second floors, and $85.00 on the third floor.
4. Double suites, a study, and two bedrooms, where the rent is $140.00 on the first and second floors, and $130.00 on the third floor.

Rules governing the allotment and rental of rooms as well as the requisite application blanks and forms of leases can be secured from the Treasurer of the College.

ENDOWMENTS, BEQUESTS AND DEVISES.

Higher education, in our country, rests largely upon a charitable basis. No institution offering a liberal education can be maintained by the moderate charges made for tuition. The increasing breadth given to such higher education, and the more exalted standard of architectural effect employed in collegiate buildings, increase enormously the resulting financial strain. No such institution can therefore keep abreast of this ever rising standard of the times without the steady increase of its endowment funds. Muhlenberg College has, in the past, been the recipient of a number of very generous gifts and endowments. But, for the reasons just assigned, it must most earnestly urge its friends and graduates to aid it in furthering its resources, endowing new professorial chairs, founding scholarships, providing funds for the aid of worthy but indigent students, and the other constantly pressing needs of the institution. Attention is also called to the eminent propriety of making bequests to advance the prosperity and widen the usefulness of our institution. As it is important that testamentary papers should be carefully drawn and regularly executed, and our corporation name be written accurately, we append the following forms, respectively for personal property and real estate, indicating whether the bequest is for endowment or the general purposes of the College:

I give and bequeath to "Muhlenberg College," in Allentown, Pennsylvania, and its successors and assigns, forever, the sum of Dollars, to be safely invested by said corporation in good real estate security, and the interest accruing therefrom to be applied to the uses and purposes of said College.

I give and bequeath a certain lot, situated (here described) to "Muhlenberg College," in Allentown, Pennsylvania, and to its successors and assigns, forever, for the uses and purposes of said College, according to the provisions of its charter.

THE ALUMNI ASSOCIATION OF MUHLENBERG COLLEGE.

PRESIDENT: Prof. George T. Ettinger, Ph.D., '80.

VICE-PRESIDENTS: Rev. J. J. Schindel, '96, Allentown, Pa., Rev. W. O. Fegley, '90, Trappe, Pa.

CORRESPONDING SECRETARY AND TREASURER: Ralph H. Schatz, Esq., '08.

RECORDING SECRETARY: Professor J. A. Bauman, Ph.D., '73, Allentown, Pa.

BOARD OF MANAGERS: Willard D. Kline, M.D., '97; Dr. Howard S. Seip, '85, and Prof. Robert R. Fritsch, '00.

The object of this Association is to cultivate friendly relations among the alumni and to promote the interests of Muhlenberg College.

Any graduate of Muhlenberg College may become a member by paying a membership fee of $1, and 50 cents annually thereafter.

It is urgently requested that as many of the alumni as possible join the Association, and thus assist in advancing the objects for which it has been established.

The annual meeting is held on Thursday afternoon of Commencement week.

Further information may be had from the Corresponding Secretary.

UNDERGRADUATES.

SENIORS.

Elmer H. Bausch	Classical	Lynnville, Pa.
Ralph H. Bieber	Classical	Allentown, Pa.
David H. Bucks	Classical	Leola, Pa.
David S. Cook	Philosophy	Spring City, Pa.
Edgar Crouthamel	Classical	Philadelphia, Pa.
Arthur S. Deibert	Classical	Schnecksville, Pa.
George A. Eichler	Classical	Laurys, Pa.
John L. Eisenhard	Classical	Cementon, Pa.
Martin D. Fetherolf	Classical	Jacksonville, Pa.
James R. Flexer	Scientific	Allentown, Pa.
Henry J. Fry	Classical	Philadelphia, Pa.
Charles A. Gebert	Classical	Tamaqua, Pa.
Arthur P. Grammes	Classical	Fogelsville, Pa.
William J. Heilman	Classical	Kutztown, Pa.
Frederick A. Heuer	Classical	Philadelphia, Pa.
Clarence F. Hoehle	Classical	Rittersville, Pa.
Christian P. Jensen	Classical	Utica, Pa.
Elmer S. Kidd	Classical	Bath, Pa.
Elmer L. Leisey	Classical	Denver, Pa.
Walter W. Mock	Scientific	Allentown, Pa.
Herman H. Nenow	Scientific	Phillipsburg, N. J.
T. Ernest Orr	Scientific	Phillipsburg, N. J.
Warren C. Phillips	Classical	Shoemakersville, Pa.
Charles F. Seidel	Classical	Calcium, Pa.
Harvey T. Sell	Classical	Schnecksville, Pa.
Albert H. Skean	Scientific	Pottstown, Pa.
Paul V. Taylor	Classical	Allentown, Pa.
Elwood J. Unangst	Classical	Nazareth, Pa.
Harry S. Ziemer	Scientific	Adamstown, Pa.

Seniors, 29.

JUNIORS.

Henry A. Bagger	Classical	Brooklyn, N. Y.
Ellis S. Biery	Classical	Macungie, Pa.
Harrison W. Dubbs	Philosophy	Emaus, Pa.
John W. Early	Special	Reading, Pa.
Walter O. Ettinger	Special	Mt. Bethel, Pa.
Harry B. Fehl	Classical	Reading, Pa.
William A. Freihofer	Classical	Philadelphia, Pa.

Elmer E. Frederick	Philosophy	Allentown, Pa.
Theodore K. Finck	Classical	New Market, Va.
J. Melvin Freed	Classical	Perkasie, Pa.
Newton W. Geiss	Classical	Kutztown, Pa.
Frederick A. Hemsath	Scientific	Bethlehem, Pa.
Norbert R. Kauffman	Scientific	Lima, Ohio.
Ernest R. Keiter	Classical	Allentown, Pa.
Howard R. Kistler	Scientific	Allentown, Pa.
W. Harold Laury	Classical	Perkasie, Pa.
Nevin T. Loch	Classical	Switzer, Pa.
G. Donald Marks	Special	Allentown, Pa.
Ralph F. Merkle	Scientific	Allentown, Pa.
Reuben Miller	Scientific	Easton, Pa.
Ernest W. Moyer	Philosophy	Perkasie, Pa.
Walter L. Reisner	Philosophy	Millersville, Pa.
Paul L. Royer	Classical	Rothsville, Pa.
Richard J. Schmoyer	Classical	Allentown, Pa.
Arthur B. Seidel	Classical	Reading, Pa.
Harry W. Smeltzer	Philosophy	Reading, Pa.
Henry L. Snyder	Philosophy	Zionsville, Pa.
Edward H. Stolzenbach	Scientific	Lima, Ohio.
Raymond C. Walters	Classical	Rittersville, Pa.
William L. Werner	Classical	Lebanon, Pa.
Theodore F. Wichman	Scientific	Rochester, N. Y.
Levi N. Yiengst	Classical	Lebanon, Pa.
Mark S. Young	Scientific	Allentown, Pa.

Juniors, 33.

SOPHOMORES.

Guerney F. Afflerbach	Scientific	Quakertown, Pa.
Mayden E. Barner	Classical	Kutztown, Pa.
Harry J. Billow	Classical	Herndon, Pa.
Harry C. Blank	Chemistry	Allentown, Pa.
Melville J. Boyer	Classical	Neffs, Pa.
Orrin E. Boyle	Philosophy	Allentown, Pa.
Thomas J. Brennan	Scientific	Pottsville, Pa.
George Brubaker	Scientific	Lancaster, Pa.
Leland Brunner	Philosophy	Carbondale, Pa.
Charles Copley	Chemistry	Mahanoy City, Pa.
John P. Creveling, Jr.	Scientific	Allentown, Pa.
John G. Davidson	Classical	Coopersburg, Pa.
Richard Duerschner	Classical	Troy, N. Y.
Clifford Eichner	Classical	Freemansburg, Pa.

Carl A. Erickson	Philosophy	Elmira, N. Y.
Homer D. Everett	Scientific	Long Pond, Pa.
Norman R. Frankenfield	Scientific	Easton, Pa.
C. Luther Fry	Classical	Philadelphia, Pa.
Harry W. Hepner	Classical	Herndon, Pa.
William H. Hollenbach	Philosophy	Maytown, Pa.
Benjamin A. Hubbard	Chemistry	Scranton, Pa.
David G. Jaxheimer	Classical	Bethlehem, Pa.
Russel B. Kern	Classical	Emerald, Pa.
Claude M. Laudenslager	Scientific	Allentown, Pa.
George A. Legg	Philosophy	Kingston, N. Y.
Paul L. Lindenstruth	Classical	Wilkes-Barre, Pa.
Henry Moehling, Jr.	Classical	Brooklyn, N. Y.
Frank Moyer	Philosophy	Slatedale, Pa.
John W. Noble	Philosophy	Allentown, Pa.
Homer M. Parker	Scientific	Philadelphia, Pa.
William C. Rapp	Scientific	Allentown, Pa.
William S. Ritter	Scientific	Allentown, Pa.
Arthur D. Roderick	Scientific	Hazleton, Pa.
Roy Rohr	Scientific	Bath, Pa.
Earl V. Schantz	Philosophy	Allentown, Pa.
Edward W. Schlechter	Scientific	Allentown, Pa.
Luther C. Schmehl	Scientific	Reading, Pa.
Harley J. Smith	Scientific	Allentown, Pa.
Floyd W. Uhler	Chemistry	Stockertown, Pa.
Robley DaCosta Walter	Scientific	Bethlehem, Pa.
Homer A. Weaver	Classical	Coopersburg, Pa.
Ernest A. Weber	Classical	Boyertown, Pa.
George C. Weida	Classical	Krumsville, Pa.
Ralph F. Wetherhold	Scientific	Allentown, Pa.
Earl E. Witmer	Philosophy	Richlandtown, Pa.
Russell Young	Classical	Macungie, Pa.
Edward Zimmerman	Scientific	Allentown, Pa.

Sophomores, 47.

FRESHMEN.

William M. Anderson	Scientific	Harrisburg, Pa.
Mark A. Bausch	Classical	Lynnville, Pa.
J. Howard Berry, Jr.	Scientific	Philadelphia, Pa.
Albert W. Blair	Scientific	Mt. Vernon, Ill.
Allen Boyer	Classical	Lebanon, Pa.
Elgar J. Brong	Philosophy	Allentown, Pa.
Wm. Lawrence Caskey	Classical	Philadelphia, Pa.

Edwin D. Clauss	Classical	Allentown, Pa.
Franklin Day	Chemistry	Philadelphia, Pa.
Francis J. Detling	Philosophy	Phillipsburg, N. J.
I. Noble Dundore	Classical	Myerstown, Pa.
Jesse J. Erich	Chemistry	Allentown, Pa.
James E. Ernst	Philosophy	Mohrsville, Pa.
John R. Euchler	Scientific	Gilbert, Pa.
Thomas Eurell	Philosophy	Phillipsburg, N. J.
Samuel D. Frederick	Scientific	Allentown, Pa.
Waldemar L. Gallenkamp	Classical	Scranton, Pa.
Samuel D. Gangewer	Scientific	Allentown, Pa.
Paul J. Gebert	Classical	Tamaqua, Pa.
Edwin R. Haag	Classical	Reading, Pa.
Ernest Harting	Scientific	Allentown, Pa.
Edwin W. Hartzell	Scientific	Bethlehem, Pa.
Louis J. Hayes	Scientific	Philadelphia, Pa.
Wayne W. Heffley	Scientific	Birdsboro, Pa.
Harvey L. Heist	Classical	Allentown, Pa.
Peter Henninger	Scientific	Newberry, Pa.
Walter E. Huetsch	Philosophy	Easton, Pa.
Joseph T. Hummel	Classical	Allentown, Pa.
Thomas B. Keck	Scientific	Allentown, Pa.
Samuel R. Kistler	Classical	Allentown, Pa.
Maurice P. Klick	Philosophy	Lebanon, Pa.
Andrew Koleser	Special	Phillipsburg, N. J.
Henry C. Kraft	Classical	West Hazleton, Pa.
Clayton L. Krum	Chemistry	Allentown, Pa.
George A. Kunkle	Classical	Aquashicola, Pa.
H. Leslie Landis	Scientific	Harrisburg, Pa.
George B. Lazarus	Scientific	Vinemont, Pa.
Elwood H. Leh	Chemistry	Catasauqua, Pa.
Leroy L. Leister	Philosophy	Sellersville, Pa.
Walter S. Loser	Scientific	Paxtang, Pa.
Paul A. Mader	Scientific	Allentown, Pa.
John N. Mohr	Scientific	Alburtis, Pa.
Louis F. Mountney	Chemistry	Pen Argyl, Pa.
Henry H. Moyer	Classical	Aquashicola, Pa.
J. Stanley Nickum	Chemistry	Allentown, Pa.
Antonio Ramirez	Scientific	Porto Rico.
Lester G. Rarig	Special	Catawissa, Pa.
S. Elvin Reimel	Scientific	Bartonsville, Pa.
John F. Ruhe	Scientific	Allentown, Pa.
Roland L. Rupp	Philosophy	Breinigsville, Pa.

VICTOR A. RUTH .....Classical .....Macungie, Pa.
C. MORRIS SCHEETZ .....Philosophy ....Perkasie, Pa.
RAY E. SCHOENLEY .....Philosophy ....Allentown, Pa.
WILLIAM P. SCHOUT .....Scientific .....Allentown, Pa.
ELWOOD SCHWENK .....Classical .....Boyertown, Pa.
FRED. R. SEIDEL .....Special .....Hazleton, Pa.
BELA SHETLOCK .....Classical .....Egypt, Pa.
EMORY B. SIEGER .....Philosophy ....Coplay, Pa.
CORSON C. SNYDER .....Classical .....Harleysville, Pa.
SAMUEL B. SUSSMAN .....Classical .....Allentown, Pa.
ROBERT N. TAYLOR .....Philosophy ....Allentown, Pa.
JACKSON R. UHLER .....Special .....Tatamy, Pa.
CHARLES R. WEIRBACH .....Philosophy ....Easton, Pa.
JOSEPH C. WIMMER .....Classical .....Telford, Pa.

Freshmen, 64.

SATURDAY CLASS FOR TEACHERS.

CLIFTON O. ARTHUR .....Coplay, Pa.
C. W. EISENHARD .....Allentown, Pa.
S. C. FRANKENFIELS .....Allentown, Pa.
HELEN M. GEORGE .....Allentown, Pa.
W. M. GENSZLER .....Fogelsville, Pa.
HARVEY GRAVES .....Catasauqua, Pa.
EUGENE M. KNERR .....Allentown, Pa.
CARRIE KOONS .....Allentown, Pa.
B. WILLIAM LAUBACH .....Allentown, Pa.
FLORENCE LENTZ .....Allentown, Pa.
WESLEY U. MITMAN .....Easton, Pa.
H. H. ROMIG .....Allentown, Pa.
ELIZABETH SHELLING .....Allentown, Pa.
ALBERT I. SCHMOYER .....Allentown, Pa.
WM. SHETLOCK .....Egypt, Pa.
FRED. SNYDER .....Allentown, Pa.
MARY SNYDER .....Slatington, Pa.
JOHN S. STETTLER .....Bethlehem, Pa.
M. B. WEITZEL .....Allentown, Pa.
LEAH DIETER .....Allentown, Pa.
JESSIE DIEHL .....Allentown, Pa.
MABEL FRY .....Allentown, Pa.
MAUDE REASER .....Allentown, Pa.
HARRIET BOWMAN .....Allentown, Pa.
OREL LONG .....Allentown, Pa.
PAULINE BACHMAN .....Allentown, Pa.

HANNAH PENNEBACKER ..... Allentown, Pa.
FLOSSIE KRAUSE ..... Neffs, Pa.
HANNAH ARNER ..... Allentown, Pa.
H. D. STECKEL ..... Slatington, Pa.
MABEL KRAMLICH ..... Allentown, Pa.
STELLA WOODRING ..... Neffs, Pa.
R. C. LANDIS ..... Emaus, Pa.
G. S. SCHROPE ..... Allentown, Pa.
SOPHIE STANSFIELD ..... Emaus, Pa.
HERBERT WENTZ ..... Allentown, Pa.
Saturday School, 36.

SUMMARY.

Seniors	29
Juniors	33
Sophomores	47
Freshmen	64
	173
Students in Teachers' Class	36
Students in Preparatory School	122
Total	331

ALUMNI.

1868.

ERNEST A. MUHLENBERG, ESQ. ..... Reading, Pa.
WILLIAM F. MUHLENBERG, M.D., LL.D. .. Reading, Pa.
REV. WILLIAM H. RICKERT ..... Philadelphia, Pa.
PROF. LUTHER A. SWOPE ..... Hanover, Pa.

1869.

*REV. GEORGE D. FOUST ..... North Wales, Pa.
*REV. MILTON J. KRAMLICH ..... Allentown, Pa.
REV. PROF. REVERE F. WEIDNER, D.D., LL.D. ..... Chicago, Ill.

1870.

FREDERICK W. BUTLER ..... Reading, Pa.
*REV. ISAAC N. S. ERB ..... Orwigsburg, Pa.
REV. PROF. WILLIAM K. FRICK, D.D. ..... Milwaukee, Wis.
*REV. JOHN J. KUNTZ ..... Allentown, Pa.
*WILLIAM H. KUNTZ, M.D ..... New Castle, Del.
REV. JOHN W. RUMPLE, PH.D ..... Brooklyn, N. Y.
REV. SAMUEL A. ZIEGENFUSS, D.D. ..... Strassburg, Pa.

1871.

RICHARD H. BECK, M.D ..... Hecktown, Pa.
*JOHN H. GARBER ..... Salinas City, Cal.
*DAVID S. HOFFMAN, M. D ..... San Diego, Cal.
*CHARLES H. KELLER ..... Philadelphia, Pa.
*PROF. BENJAMIN F. KNERR ..... South Evanston, Ill.
REV. CHARLES S. KOHLER ..... Cleveland, Ohio.
EUGENE C. LOCHMAN, ESQ ..... New York, N. Y.
*REV. ACHILLES J. LONG ..... Stouchsburg, Pa.
*REV. JACOB H. NEIMAN ..... Shillington, Pa.
REV. PROF. JEREMIAH F. OHL, Mus. Doc. .. Philadelphia, Pa.
REV. HIRAM PETERS, D.D ..... Lewisburg, Ohio.
*REV. OLIVER P. SMITH, D.D ..... Pottstown, Pa.
*REV. HENRY B. STRODACH ..... Reading, Pa.
*HENRY W. WOODWARD, ESQ ..... Philadelphia, Pa.

*Deceased.

1872.

Rev. William A. Beates.....Lancaster, Ohio.
*Rev. D. Levin Coleman.....Easton, Pa.
*Martin L. Fritch.....Philadelphia, Pa.
Rev. Samuel W. Kuhns.....Woodstock, Va.
*Rev. William H. Laubenstein.....Tamaqua, Pa.
Rev. Alpheus D. Potts, D.D.....Chambersburg, Pa.
Rev. Myron O. Rath.....Allentown, Pa.
*Rev. George H. Rhodes.....Gouldsboro, Pa.
*Rev. J. George Schaidt.....New Haven, W. Va.
Rev. John A. Scheffer.....Allentown, Pa.
William P. Snyder.....New York, N. Y.
*Horatio R. Trexler.....Reading, Pa.
*Rev. John M. Uhrich.....Pillow, Pa.
*Rev. George T. Weibel.....Churchtown, Pa.

1873.

Rev. Prof. John A. Bauman, Ph.D.....Allentown, Pa.
*Harry P. Cooper.....Emaus, Pa.
Rev. Jesse S. Erb.....Slatington, Pa.
*Frank C. Erdman, M.D.....Centre Valley, Pa.
Rev. Prof. G. H. Gerberding, D.D.....Chicago, Ill.
Oscar S. Grim.....Allentown, Pa.
Howard Himmelwright.....Tyrone, Pa.
Rev. Charles J. Hirzel.....Philadelphia, Pa.
Charles B. Keller.....Lancaster, Pa.
Hon. George F. Kribbs.....Kissimmee, Fla.
Rev. George G. Kunkle.....Cherryville, Pa.
Oscar Meyer.....Chicago, Ill.
Rev. William H. Myers.....Reading, Pa.
*Rev. John Nicum, D.D.....Rochester, N. Y.
Rev. Asher P. Pflueger.....Ringtown, Pa.
Prof. Francis D. Raub.....Allentown, Pa.
Rev. D. Luther Roth, D.D.....Pittsburg, Pa.
Rev. Luther M. C. Weicksel.....Renovo, Pa.
*Rev. Julius A. J. Zahn.....Greenville, Pa.

1874.

Rev. James L. Becker, D.D.....Lansdale, Pa.
*Albert J. Erdman, Esq.....Allentown, Pa.
Rev. Asa E. Erdman.....Nazareth, Pa.
*David F. Eyster, Esq.....Camp Hill, Pa.

Hon. Milton C. Henninger.....Allentown, Pa.
Oscar E. Holman, Esq.....St. Paul, Minn.
*Hon. Marcus C. L. Kline.....Allentown, Pa.
*Alfred M. Koons, D.D.S.....Patch Creek, N. Y
Monroe T. Kuntz, M.D.....Mulberry, Ind.
William A. Lichtenwallner, Esq.....Los Angeles, Cal.
Hon. James L. Schaadt.....Allentown, Pa.
Adam H. Schmehl, Esq.....Reading, Pa.
Prof. Edgar D. Shimer, Ph.D., LL.D.....Jamaica, N. Y.
Rev. Jacob Q. Upp.....South Easton, Pa.

1875.

John W. Albrecht.....Warren, Pa.
*Wilson S. Berlin, M.D.....Allentown, Pa.
*Rev. Jonas P. German.....Fritztown, Pa.
Rev. Charles H. Hemsath.....Bethlehem, Pa.
Rev. Newton J. Miller.....Williamsport, Pa.
*Rev. William A. Passavant, Jr.....Milwaukee, Wis.
Edwin H. Stine, Esq.....Allentown, Pa.

1876.

Charles H. Camp, Esq.....Williamsport, Pa.
Rev. Henry T. Clymer.....Philadelphia, Pa.
Constantine D. Kiehel, Esq.....Rochester, N. Y.
*Rev. Jeremiah H. Kline.....Rochester, Pa.
*Hon. Frank E. Meily.....Lebanon, Pa.
Henry M. Muhlenberg, Ph.G.....Reading, Pa.
Rev. Solomon E. Ochsenford, D.D. .... Bath, Pa.
John M. Smeltzer.....Myerstown, Pa.
John D. Uhrich, Esq.....Grantville, Pa.

1877.

*Rev. William J. Bieber.....Hellertown, Pa.
Michael A. Gruber.....Washington, D. C.
*Jacob H. Losch, Esq.....West Point, Neb.
*Rev. William J. Miller, D.D.....Greensburg, Pa.
Rev. Prof. John Sander, L.H.D.....Lindstrom, Minn.
*Rev. Wilbert P. Shanor.....Allegheny, Pa.
George M. VanBuskirk, Esq.....New York, N. Y.
Rev. M. Luther Zweizig.....Reading, Pa.

1878.

Rev. Charles L. Fry, D.D. ..... Philadelphia, Pa.
*Preston M. Gernet, Esq. ..... Bethlehem, Pa.
*Hon. Henry H. Herbst, M.D. ..... Allentown, Pa.
Rev. Frederick W. Kohler ..... Rochester, Pa.
*Hiram P. Kuntz ..... Hazleton, Pa.
Rev. D. Henry Reiter ..... Richland Centre, Pa.
Prof. Oliver G. J. Schaadt, Ph.D. ..... New York, N. Y.
*Emerson F. Schock, Esq. ..... Allentown, Pa.
Rev. Daniel A. Shetler ..... Philadelphia, Pa.
*Rev. Prof. James D. Woodring, D.D. ..... Myerstown, Pa.

1879.

Rev. Carl N. Conrad, Ph.D., S.T.D. ..... Rochester, N. Y.
Rev. Julius W. Knapp, Ph.D. ..... New York, N. Y.
George D. Krause ..... Lebanon, Pa.
*Edwin J. Lichtenwallner, Esq. ..... Allentown, Pa.
Rev. Wilson M. Rehrig, Ph.D. ..... Mauch Chunk, Pa.
*Hon. John K. Reinoehl, M.D. ..... Lebanon, Pa.
Alfred J. P. Roth ..... Allentown, Pa.
*George B. Schock, Esq. ..... Lebanon, Pa.
*Rev. Charles S. Seaman ..... Adamsburg, Pa.
Rev. George S. Seaman ..... Leesport, Pa.
Hon. Frank M. Trexler, LL.D. ..... Allentown, Pa.
Rev. John N. Wetzler, Ph.D., D.D. ..... Brick Church, Pa.

1880.

Rev. James F. Beates ..... St. Paul, Minn.
Prof. George T. Ettinger, Ph.D. ..... Allentown, Pa.
*Jonas F. Kline, Esq. ..... Allentown, Pa.
Rev. J. Walker Klingler ..... Tremont, Pa.
Marvin O. Koons ..... Lehighton, Pa.
*Benjamin Sadtler, B.S., '83 ..... Denver, Col.
Robert W. Steckel ..... Twin Lakes, Col.
Rev. Solomon B. Stupp ..... Springfield, Ohio.
Rev. John H. Umbenhen, Ph.D. ..... Pottsville, Pa.
Rev. Wilson Yeisley ..... Greenville, Pa.

1881.

*Thomas M. Angstadt, M.D. ..... Mahone Bay, N. S.
Rev. Clayton L. Holloway ..... Long Beach, Cal.
*William F. Kistler ..... Fort Quitman, Tex.

*David J. M. Kuntz, Esq.....Brooklyn, N. Y.
Hon. Joseph W. Mayne.....Allentown, Pa.
Rev. Luther M. McCreery.....Morrisburg, Ont.
*Rev. Oscar D. Miller.....Allentown, Pa.
*Frank H. Reinoehl.....Lebanon, Pa.
*Rev. Charles E. Sandt.....Allentown, Pa.
*J. Allen Schaadt.....Philadelphia, Pa.
Rev. Frank H. Uhrich.....Myerstown, Pa.
James T. Woodring, Esq.....South Bethlehem, Pa.

1882.

Rev. Lewis J. Bickel.....Pottstown, Pa.
Austin A. Glick, Esq.....Catasauqua, Pa.
William R. Grim, Esq.....Texarkana, Tex.
Hon. Aaron B. Hassler.....Lancaster, Pa.
*Rev. Andrew J. Heissler.....Albany, N. Y.
David R. Horne, Esq.....Allentown, Pa.
Rev. Jacob W. Lazarus.....Vinemont. Pa.
Rev. William H. Medlar.....York, Nebraska.
Rev. Edwin L. Miller.....Boston, Mass.
Noah W. Reichard, M.D.....Bangor, Pa.
*Horace Reiter.....Aten, Neb.
Rev. Robert D. Roeder.....DuBois, Pa.
Prof. Samuel C. Schmucker, Ph.D.....West Chester, Pa.
Rev. Edwin H. Smoll.....Schuylkill Haven, Pa.
Oscar J. Stine, Esq.....Catasauqua, Pa.
*Rev. Thomas M. Yundt.....Womelsdorf, Pa.
J. Henry Zweizig, Esq.....Reading, Pa.

1883.

Rev. Jacob J. G. Dubbs.....Coopersburg, Pa.
Rev. John J. Foust.....Rockville Centre, N. Y.
Rev. John C. Graepp.....Krem, N. D.
Prof. M. Luther Horne.....Allentown, Pa.
Francis Kayser.....Philadelphia, Pa.
Charles E. Keck, Esq.....Wilkes-Barre, Pa.
Rev. John J. Kline, Ph.D.....Pottstown, Pa.
Dexter L. Rambo.....Chester, S. C.
Rev. Jeremiah H. Ritter.....Allentown, Pa.
Rev. Prof. Wm. A. Sadtler, Ph.D.....Atchison, Kansas.
Rev. James O. Schlenker.....Allentown, Pa.
*Rev. William F. Schoener.....South Bethlehem, Pa.

Rev. R. Morris Smith, D.D.....Washington, Pa.
N. Wiley Thomas, B.S., Ph.D.....Philadelphia, Pa.
*Irwin S. Uhler, Esq.....Easton, Pa.

1884.

Milton W. Bohn.....Norfolk, Va.
*Rev. Alfred J. L. Breinig.....Bowmanstown, Pa.
John M. Dettra, Esq.....Norristown, Pa.
Prof. Albert B. Erb.....Yorktown, Tex.
Rev. William J. Finck.....New Market, Va.
Rev. Herman C. Fox, D.D.....Scranton, Pa.
Rev. John J. Heissler.....Trenton, N. J.
Rev. William D. C. Keiter, D.D.....Allentown, Pa.
Rev. Prof. Elmer F. Krauss, D.D.....Chicago, Ill.
Rev. Hiram J. Kuder.....South Bethlehem, Pa.
Rev. James O. Leibensperger.....South Bethlehem, Pa.
*Rev. Oscar E. Pflueger.....Womelsdorf, Pa.
Rev. James J. Reitz.....Walnutport, Pa.
Rev. George J. Schaeffer.....Hepler, Pa.
Rev. George M. Scheidy, B.E.....Allentown, Pa.
Jacob W. Uhrich.....Grantville, Pa.
Valentine J. Uhrich, Esq.....Lebanon, Pa.
Rev. Prof. C. Ernest Wagner.....Lancaster, Pa.
Rev. Samuel G. Weiskotten, D.D.....Brooklyn, N. Y.
Ira Wise, B.S.....Allentown, Pa.
Rev. Prof. William H. Zuber.....Jeanette, Pa.

1885.

Rev. Prof. Charles C. Boyer, Ph.D.....Kutztown, Pa.
*Daniel E. Brunner.....Reading, Pa.
Rev. Frank F. Fry, D.D.....Rochester, N. Y.
Rev. C. F. William Hoppe, D.D.....Savannah, Ga.
*Elmer E. Johnson, M.D.....Philadelphia, Pa.
Francis G. Lewis, Esq.....Allentown, Pa.
Rev. Robert B. Lynch.....Kutztown, Pa.
Rev. A. Miles Mehrkam.....Rochester, Pa.
Wilson K. Mohr, Esq.....Allentown, Pa.
Howard S. Seip, D.D.S.....Allentown, Pa.
Rev. Adam M. Weber.....Boyertown, Pa.
Rev. William Weicksel.....New Mayville, Pa.
Rev. Elias A. Yehl.....Bangor, Pa.

1886.

*Forest M. Fox.....Sumneytown, Pa.
Rev. Charles W. Jefferis.....Doylestown, Pa.
Rev. Edwin F. Keever.....Utica, N. Y.
Samuel J. Kistler, Esq.....Allentown, Pa.
Prof. Elmer P. Kohler, Ph.D.....Bryn Mawr, Pa.
*Rev. Ernest T. Kretschmann, Ph.D....Anderson, Ind.
*A. Grant Loder, M.D.....Philadelphia, Pa.
Rev. John F. Nicholas, D.D.....Haddon Heights, N. J.
Samuel N. Potteiger, Esq.....Reading, Pa.
George A. Prediger, Esq.....Pittsfield, Mass.
Elmer O. Reyer, Esq.....Northampton, Pa.
Rev. Nelson F. Schmidt.....Schwenksville, Pa.
J. Jeremiah Snyder, Esq.....Allentown, Pa.
Rev. John H. Waidelich.....Sellersville, Pa.
Rev. Henry W. Warmkessel.....Reading, Pa.
*Harry K. Weaver.....New Holland, Pa.

1887.

Rev. James R. Brown.....Reading, Pa.
Raymond E. Butz, M.D.....York, Pa.
Reuben J. Butz, Esq.....Allentown, Pa.
Preston R. Dry.....Reading, Pa.
*Rev. Tilghman F. German.....Philadelphia, Pa.
Milton J. Kuehner.....Allentown, Pa.
Rev. Wm. W. Kramlich.....Freemansburg, Pa.
Prof. George A. Miller, Ph.D.....Urbana, Ill.
Rev. John W. Richards.....Lima, Ohio.
*Clinton J. Schadt, M.D.....New York, N. Y.
Rev. George E. Schettler.....Clarence Center, N. Y.
*Rev. Frank M. Seip.....Allentown, Pa.

1888.

Rev. William F. Bond.....Shamrock, Pa.
Rev. Charles D. Clauss.....Hammonton, N. J.
Rev. Clinton R. Fetter.....Telford, Pa.
Rev. George Gebert, D.D.....Tamaqua, Pa.
Rev. David G. Gerberich.....Prospect, Pa.
*Alfred W. Kistler.....Kempton, Pa.
Rev. James F. Lambert.....Catasauqua, Pa.

RALPH METZGER, ESQ.....Allentown, Pa.
REV. EDWARD F. RITTER.....Lancaster, O.
HENRY F. SCHANTZ, M.D.....Reading, Pa.
REV. OSCAR S. SCHEIRER.....Stony Run, Pa.
GEORGE R. ULRICH, D.D.S.....Philadelphia, Pa.
REV. JOHN M. WENRICH.....Wapakoneta, O.

1889.

REV. ERNEST M. GRAHN.....Albany, N. Y.
J. WYLLIS HASSLER, M.D.....New York, N. Y.
*REV. JOHN B. HEIL.....Germansville, Pa.
REV. JOHN W. HORINE.....Philadelphia, Pa.
REV. PRESTON A. LAURY.....Perkasie, Pa.
REV. ELMER O. LEOPOLD.....Allentown, Pa.
REV. FRANK C. OBERLY.....Greenville, Pa.
REV. JOHN H. RAKER.....Allentown, Pa.

1890.

ALBERT J. BITTNER, M.D.....Allentown, Pa.
REV. WILLIAM O. FEGELY.....Trappe, Pa.
DAVID J. GIMLICH.....Pittsfield, Mass.
*ALFRED K. KECK.....White Haven, Pa.
REV. GEORGE S. KLECKNER.....Nazareth, Pa.
REV. IRWIN B. KURTZ, D.D.....Pottstown, Pa.
EVAN B. LEWIS, LL.B.....Philadelphia, Pa.
REV. JACOB H. LONGACRE.....Slatington, Pa.
NATHAN D. MARTIN.....Allentown, Pa.
REV. NEVIN E. MILLER.....Phœnixville, Pa.
HENRY F. PFLUEGER, M.D.....Philadelphia, Pa.
REV. J. CHARLES RAUSCH.....Allentown, Pa.
REV. IRWIN B. RITTER.....Allentown, Pa.
JOHN F. SAEGER.....Allentown, Pa.
MARTIN G. SCHAEFFER, ESQ.....Lancaster, Pa.
IRA E. SEIDLE, ESQ.....Lehighton, Pa.
HARRY S. SNYDER, M.D.....Allentown, Pa.
REV. SAMUEL J. ULRICH.....Burnham, Pa.
SAMUEL R. WEAVER, ESQ.....Lancaster, Pa.
REV. JAMES B. WERNER.....Stamford, Conn.
JOHN J. YINGLING.....Allentown, Pa.
*HON. ALFRED J. YOST, M.D.....Allentown, Pa.

1891.

REUBEN H. BACHMAN.....Edenton, N. C.
REV. MILTON J. BIEBER.....Berlin, Canada.
REV. GEORGE S. BUTZ, PH.D.....Littlestown, Pa.
WILLIAM H. COOPER, M.D.....Oakmont, Pa.
PROF. MARTIN S. HARTING.....Allentown, Pa.
HENRY H. HOWER.....Danielsville, Pa.
CHESTER F. KIEHEL, ESQ.....Rochester, N. Y.
REV. WILLIAM W. KISTLER.....Coopersburg, Pa.
EDWIN D. MEIXELL.....Cressona, Pa.
REV. HARRISON E. MOYER.....Aquashicola, Pa.
*PROF. PRESTON P. RODENBERGER.....Charles City, Iowa.
REV. WILLIAM P. SACHS.....St. Louis, Mo.
REV. HIRAM F. J. SENEKER.....Pottstown, Pa.
JOSEPH P. SHIMER.....Allentown, Pa.
REV. CHARLES C. SNYDER.....Richlandtown, Pa.
REV. C. WILLIAM T. STRASSER.....Stroudsburg, Pa.

1892.

CLARENCE BECK, ESQ.....Easton, Pa.
OSCAR F. BERNHEIM.....Allentown, Pa.
REV. ULYSSES S. G. BERTOLET.....Philadelphia, Pa.
REV. EDWIN M. BEYSHER.....Sayre, Pa.
HARVEY P. BUTZ.....Seattle, Wash.
REV. FREDERICK DOERR.....Wilmington, Del.
PROF. J. RICHMOND MERKEL.....Kingston, Pa.
REV. ADAM L. RAMER, PH.D.....Allentown, Pa.
REV. H. BRANSON RICHARDS.....Lebanon, Pa.
REV. CHARLES G. SPIEKER.....Scranton, Pa.
FREDERICK W. SPIEKER, D.D.S.....Portland, Ore.
REV. ISAAC H. STETLER.....Fultonham, O.
REV. EDWARD H. TRAFFORD.....Brooklyn, N. Y.
PAUL S. ULRICH.....Lebanon, Pa.
*LEO WISE, ESQ.....Allentown, Pa.

1893.

RODERICK E. ALBRIGHT, M.D.....Allentown, Pa.
SAMUEL B. ANEWALT, JR.....Allentown, Pa.
WILLIAM B. BROBST.....Wallawalla, Wash.
REV. ALFRED O. EBERT.....New Tripoli, Pa.
REV. CHARLES J. GABLE.....Melrose, Pa.

Rev. George A. Kercher.....Norristown, Pa.
Edwin T. Kunkle.....Stroudsburg, Pa.
Rev. William O. Laub.....Reading, Pa.
Rev. Ambrose W. Leibensperger.....Lebanon, Pa.
Charles L. Lichtenwallner, D.D.S.....Lansdale, Pa.
Rev. Joshua H. Miller, Ph.D..... New Castle, Pa.
Edwin J. Mosser, Esq.....Chicago, Ill.
William F. Mosser.....Bethlehem, Pa.
Hon. William Rick .....Reading, Pa.
*Prof. Charles E. Roos.....New Orleans, La.
Rev. Melville B. Schmoyer.....Macungie, Pa.
Rev. P. George Sieger.....Lancaster, Pa.
Wilson G. Smoyer.....Allentown, Pa.
Rev. Eugene Stetler.....Trevorton, Pa.
Harry A. Yetter, LL.B.....Binghamton, N. Y

1894.

Rev. George D. Druckenmiller.....Hamburg, Pa.
Ira T. Erdman, Esq.....Allentown, Pa.
Max S. Erdman, Esq.....Allentown, Pa.
Malcolm W. Gross, Esq.....Allentown, Pa.
Rev. J. William H. Heintz.....Philadelphia, Pa.
Allen V. Heyl.....Allentown, Pa.
Rev. William U. Kistler.....Pennsburg, Pa.
Rev. Harry C. Kline.....Bethlehem, Pa.
Rev. Frank C. Longaker.....Springfield, O.
Rev. George C. Loos.....Brooklyn, N. Y.
*Prof. William H. S. Miller.....Allentown, Pa.
David A. Miller.....Allentown, Pa.
Samuel P. Miller.....Allentown, Pa.
Rev. Warren Nickel.....Souderton, Pa.
George S. Opp, Mus. B.....Philadelphia, Pa.
*Martin L. Trexler.....Bernville, Pa.
Rev. Frederick W. Wackernagel.....Allentown, Pa.
Rev. Edwin S. Woodring.....Allentown, Pa.
Rev. Charles D. Zweier.....Sunbury, Pa.

1895.

Rev. Victor J. Bauer.....Bethlehem, Pa.
*Rev. Vitalis J. Becker.....Springfield, O.
Rev. Preston A. Behler.....Allentown, Pa.
Forley Ebert.....Millville, N. J.

Rev. Warren J. Ellis.....Greenville, Pa.
Rev. Luther D. Gable.....Brooklyn. N. Y.
Ammon A. Killian, Ph.D.....Susquehanna, Pa.
Rev. Charles E. Kistler.....Reading, Pa.
Rev. Edward H. Kistler.....Baltimore, Md.
Rev. Frederick C. Krapf.....Hershey, Pa.
Rev. Luther D. Lazarus.....West Bethlehem, Pa.
Rev. Philip A. Lentz.....Ellwood City, Pa.
Newton T. Miller.....Philadelphia, Pa.
Rev. Harry P. Miller.....Bethlehem, Pa.
Prof. John E. Sandt.....Reading, Pa.
Morris E. Schadt.....Schadts, Pa.
William J. Schmidt.....Freeland, Pa.
Rev. Elmer E. Snyder.....Easton, Pa.
Wellington J. Snyder, Esq.....Philadelphia, Pa.
Joseph H. Stopp, Esq.....Philadelphia, Pa.

1896.

Rev. William Penn Barr.....Weatherly, Pa.
Preston H. Breinig.....Egypt, Pa.
Rev. Frederick E. Cooper.....Milwaukee, Wis.
Rev. George W. Genszler.....Columbia, Pa.
Rev. George A. Greiss.....Allentown, Pa.
Prof. Samuel I. Henry.....Wyomissing, Pa.
Marcus S. Hottenstein, Esq.....Allentown, Pa.
Rev. J. Frederick Kramlich.....Royersford, Pa.
Oren R. B. Leidy, Esq.....New York, N. Y.
Rev. Milton U. Reinhard.....Allentown, Pa.
Major Thomas L. Rhoads, M.D.....Washington, D. C.
Rev. Jeremiah J. Schindel.....Allentown, Pa.
Joseph C. Slough, Esq.....Allentown, Pa.
Rev. John F. Snyder.....Reading, Pa.
George T. Spang, Esq.....Lebanon, Pa.
Rev. William A. Steinbicker.....Brooklyn, N. Y.
Rev. Marvin H. Stettler.....Reading, Pa.
Rev. S. A. Bridges Stopp.....Allentown, Pa.
Rev. Paul Z. Strodach.....Philadelphia, Pa.
Rev. Samuel G. Trexler.....Brooklyn, N. Y.
Rev. L. Domer Ulrich.....Wilkes-Barre, Pa.
Rev. William Marion Weaver.....Lunenberg, N. S.
Rev. Edgar P. Xander.....Valley View, Pa.
Prof. John M. Yetter, Pd.D.....East Stroudsburg, Pa.

1897.

PROF. CLINTON J. EVERETT.....Plymouth, N. C.
REV. WILLIAM H. FEHR.....Dushore, Pa.
REV. WILLIAM K. FISHER.....Reading, Pa.
REV. FRANKLIN K. FRETZ, PH.D.....Easton, Pa.
ALFRED S. HARTZELL, ESQ.....Allentown, Pa.
REV. WILMER F. HELDT.....Conyngham, Pa.
REV. AARON HENRY KLICK.....Pine Grove, Pa.
REV. IRA W. KLICK.....Marietta, Pa.
WILLARD D. KLINE, M.D.....Allentown, Pa.
REV. WILLIAM M. KOPENHAVER.....Macungie, Pa.
PROF. GEORGE E. KRAMLICH.....Galveston, Texas.
GEORGE F. KUHL.....Allentown, Pa.
REV. HENRY K. LANTZ.....Shiremanstown, Pa.
REV. GOMER B. MATTHEWS.....St. Clair, Pa.
REV. CHRISTIAN C. MILLER.....Honesdale, Pa.
REV. FRANCIS MILLER.....Philadelphia, Pa.
REV. IRA O. NOTHSTEIN.....Rock Island, Ill.
JAY E. REED.....Pillow, Pa.
REV. ARCHIBALD C. SCHENCK.....Philadelphia, Pa.
REV. H. MORRIS SCHOFER.....Red Cross, Pa.
REV. EDGAR E. SIEGER.....Allentown, Pa.
JOHN F. STINE.....Allentown, Pa.
JOHN H. SYKES.....Allentown, Pa.
JACOB A. TREXLER, M.D.....Lehighton, Pa.

1898.

REV. CHARLES G. BECK.....North Wales, Pa.
*REV. WILLIAM A. BILHEIMER.....Youngwood, Pa.
JOHN T. ECKERT, JR., M.D.....Allentown, Pa.
GEORGE F. ERDMAN.....Allentown, Pa.
JOHN S. FEGLEY, PHAR.D.....Allentown, Pa.
REV. LEVI F. GRUBER.....Minneapolis, Minn.
REV. HENRY F. HEHL.....Philadelphia, Pa.
REV. WILLIAM S. HEIST.....Scranton, Pa.
REV. DAVID C. KAUFMAN.....Emaus, Pa.
EMILE J. KEULING.....Scranton, Pa.
*REV. EDWIN L. KISTLER.....Sunbury, Pa.
MARVIN L. KLEPPINGER.....Allentown, Pa.
REV. PROF. GEORGE S. KRESSLEY.....Kutztown, Pa.
EDWIN T. LAUBACH.....Catasauqua, Pa.
REV. GEORGE I. LENKER.....Southern Pines, N. C.

Rev. Bernard Repass.....Charleston, S. C.
Rev. Will E. Steckel.....Doylestown, Pa.
Rev. John K. Sullenberger.....Allentown, Pa.
John P. Walter.....Ensley, Ala.
Rev. Wesley E. Wenner.....Stone Church, Pa.

1899.

Rev. Willis Beck.....Zumbrota, Minn.
Rev. John A. Bender .....Scranton, Pa.
Rev. James Berg.....Mt. Vernon, N. Y.
Rev. Frank N. D. Buchman.....State College, Pa.
George John Case.....Hokendauqua, Pa.
Rev. D. Elmer Fetherolf.....Pillow, Pa.
Fred. A. Fetherolf, M.S., M.D.....Allentown, Pa.
Luther Warren Fritch.....Macungie, Pa.
F. Nathan Fritch.....Bethlehem, Pa.
John G. Hartley.....Philadelphia, Pa.
Hon. R. K. Hartzell, M.S., M.D.....Reno, Nev.
Wm. A. Hausman, Jr., M.S., M.D.....Allentown, Pa.
Rev. Edgar J. Heilman.....Elizabethville, Pa.
Leidy B. Heist.....Limeport, Pa.
Rev. Jonas Oscar Henry.....Topton, Pa.
Rev. Jonathan A. Klick.....Nazareth, Pa.
Rev. John W. Koch.....Allentown, Pa.
Rev. John Kopp.....Port Chester, N. Y.
Ambrose A. Kunkle.....Detroit, Mich.
Rev. Howard A. Kunkle.....Allentown, Pa.
Harry R. McCullough.....Allentown, Pa.
Edward Raker, Esq.....Shamokin, Pa.
Charles H. Reagle.....Roselle, N. J.
Rev. Willoughby F. Rex.....Racine, Wis.
Rev. William J. Seiberling.....Mulberry, Ind.
Ira C. Steigerwalt.....Sittler, Pa.
Peter S. Trumbower.....Nazareth, Pa.

1900.

Arthur G. Beck.....Eksha, Canada.
Frederick R. Bausch, M.D..... Allentown, Pa.
Rev. Elmer D. S. Boyer.....Lafayette, Ind.
Rev. George R. Deisher.....Jonestown, Pa.
Frederick L. Erb.....Slatington, Pa.
Rev. Charles K. Fegley.....Allentown, Pa.

Rev. Arthur G. Flexer.....Mauch Chunk, Pa.
Prof. Robert R. Fritsch.....Allentown, Pa.
Prof. Robert C. Horn.....Allentown, Pa.
Rev. William M. Horn.....New York, N. Y.
Victor J. Koch, M.S., M.D.....Nazareth, Pa.
Rev. Paul G. Krutzky.....N. Tonawanda, N. Y.
Rev. Franklin S. Kuntz.....Philadelphia, Pa.
Raymond W. Lentz.....Allentown, Pa.
Edgar C. Statler, M.D.....Allentown, Pa.
Rev. Harvey L. Straub.....Lehighton, Pa.
Rev. Lewis S. Trump.....Easton, Pa.
Abraham B. Yerger.....Basking Ridge, N. J.

1901.

Rev. Allen L. Benner.....Richmond Hill, N. Y.
Clarence Bickel.....Philadelphia, Pa.
George H. Drumheller.....Earlville, Pa.
James M. Fetherolf.....Ogden, Utah.
William P. Fetherolf.....Santa Monica, Cal.
Daniel W. Hamm, M.S.....Allentown, Pa.
Ralph E. Kline.....New York, N. Y.
Raymond H. Kressler.....Allentown, Pa.
Harry S. Landis.....Allentown, Pa.
Irwin E. Nagle.....Allentown, Pa.
George L. Raether, B.S.....Belleville, Ont.
Fred. P. Reagle.....Montclair, N. J.
Rev. George K. Rubrecht.....Milwaukee, Wis.
Percy B. Ruhe.....Allentown, Pa.
Rev. Irwin O. Schell.....Quakertown, Pa.
Herbert J. Schmoyer, M.S., M.D.....Bethlehem, Pa.
Rev. John Schofer.....Stoutsville, Ohio.
Luther Serfass.....Newcastle, Pa.
Howard E. Shimer.....Newton, N. J.
Rev. Hiram F. Sieger.....Northampton, Pa.
Rev. Edward J. Wackernagel.....Toledo, Ohio.
Rev. S. Martin Wenrich.....East Bangor, Pa.
Rev. J. Howard Worth.....Pittsburgh, Pa.
Thomas McH. Yoder, B.S.....New York City.

1902.

Rev. Allen R. Appel.....Northampton, Pa.
Charles C. Bachman.....Northampton, Pa.

Efenger A. Bartholomew.....Philadelphia, Pa.
Rev. Walter C. Beck.....Warren, Pa.
H. Philemon Brunner.....Reading, Pa.
*Rev. George S. Fegely.....Souderton, Pa.
J. Ralphus Freed, Esq.....Doylestown, Pa.
Rev. William H. Gable.....Superior, Wis.
Warren Geiger.....Norristown, Pa.
Charles L. H. Glase.....Oley, Pa.
Rev. Matthias R. Heilig.....Dansville, N. Y.
Lewis A. Ink.....Duluth, Minn.
Rev. Jacob S. Kistler.....East Stroudsburg, Pa.
Prof. Quincy A. Kuehner, Ph.D.....Allentown, Pa.
Rev. Anson W. Lindenmuth.....Pottstown, Pa.
Theodore L. Lindenstruth.....Wilkes-Barre, Pa.
Russel B. Lynn, B.S., M.D.....Elmira, N. Y.
Moulton E. McFetridge.....Allentown, Pa.
William M. D. Miller, B.S.....Columbia, Pa.
Rev. Samuel E. Moyer.....Friedensburg, Pa.
Lawrence H. Rupp, Esq.....Allentown, Pa.
Rev. Jacob F. Scholl.....West Newton, Pa.
Rev. Frank M. Uhrich.....Philadelphia, Pa.
Rev. Joseph L. Weisley.....Forty Fort, Pa.
*John M. Woodring, B.S.....Allentown, Pa.
Clinton Zerweck.....Newark, N. J.

1903.

Harry E. Barndt.....Sellersville, Pa.
Rev. Oliver R. Bittner.....Grantville, Pa.
Rev. Frank Croman.....Elizabethtown, Pa.
Rev. Franklin T. Esterly.....Mahanoy City, Pa.
John B. Geisinger.....DuBois, Pa.
Prof. Jacob D. Heilman, Ph.D.....Greeley, Col.
Rev. Erwin R. Jaxheimer.....Woodhaven, N. Y.
Rev. Roger C. Kaufman.....Woodstock, Ill.
Edwin K. Kline, Esq.....Allentown, Pa.
Rev. Melvin A. Kurtz.....Boyertown, Pa.
Edward G. Leefeldt.....Staatsburg, N. Y.
R. Lorentz Miller.....Emaus, Pa.
Rev. Paul J. Neff.....Philadelphia, Pa.
*H. E. Orff.....Reading, Pa.
Rev. Augustus W. Rohrig.....Hazleton, Pa.
William H. B. Roth.....Reading, Pa.
Rev. Robert Schlotter.....Perth Amboy, N. J.

IRVIN M. SHALTER.....Allentown, Pa.
HARRY W. SHIMER.....Siegfried, Pa.
REV. ARTHUR L. SMITH..... Ricketts, Pa.
GEORGE W. SPECHT.....Hokendauqua, Pa.
REV. C. DANIEL TREXLER..... Brooklyn, N. Y.
JOSEPH M. WEAVER, B.S., M.D.....Allentown, Pa.
CHARLES W. WEBB, ESQ.....Allentown, Pa.
MERVIN J. WERTMAN.....Orefield, Pa.
REV. ORLANDO S. YERGER..... Brooklyn, N. Y.
REV. ALVIN E. YOUSE..... Myerstown, Pa.

1904.

WARREN F. ACKER.....Allentown, Pa.
REV. MARK L. BURGER.....Reading, Pa.
REV. LAWRENCE G. DEILY.....Toledo, Ohio.
FRANK B. DENNIS.....Nazareth, Pa.
REV. MILTON M. DRY..... Nazareth, Pa.
ELLIS W. ERNEY..... New Waterford, O.
REV. JOHN C. FISHER..... Brooklyn, N. Y.
HANS S. GARDNER.....Dante, Va.
BENTON W. H. GOLDSMITH.....Catasauqua, Pa.
LAWRENCE GRIESEMER.....New York, N. Y.
CHARLES A. HAINES.....Slatington, Pa.
EUGENE M. HANDWERK.....Germansville, Pa.
REV. WALTER J. HUNTSINGER.....Camden, N. J.
WILLIAM H. KEBOCH..... Cetronia, Pa.
REV. J. FRANKLIN KELLER.....Fogelsville, Pa.
WILLIAM R. KLECKNER.....Cementon, Pa.
PETER W. LEISENRING.....Allentown, Pa.
REV. LAWRENCE R. MILLER..... West Leesport, Pa.
REV. FRANCIS E. REICHARD.....Packerton, Pa.
STILLE A. RENTZHEIMER, B.S.....Hellertown, Pa.
REV. GEORGE H. RHODES.....Rural Retreat, Va.
REV. HORACE B. RITTER.....Hellertown, Pa.
REV. NORMAN Y. RITTER..... Quakertown, Pa.
GEORGE W. SHERER.....Allentown, Pa.
CHARLES A. SMITH.....New York, N. Y.
REV. DANIEL I. SULTZBACH..... Philadelphia, Pa.
REV. MARTIN J. SWANK..... St. Johns, Pa.
ARTHUR L. WUCHTER.....Allentown, Pa.

1905.

DALLAS H. BASTIAN.....Philadelphia, Pa.
REV. CHARLES H. BOHNER.....Atlantic City, N. J.
REV. WIRT A. DRIES.....Sunbury, Pa.
HERBERT F. GERNERT, B.S.....Trexlertown, Pa.
GEORGE E. K. GUTH.....Allentown, Pa.
REV. CHARLES G. HEFFNER.....Mohnton, Pa.
JOHN J. HEILMAN.....Walberts, Pa.
REV. CLARENCE E. KEISER.....New Haven, Conn.
REV. I. HOWARD KERN, S.T.D.....Frackville, Pa.
REV. HARVEY S. KIDD.....Allentown, Pa.
REV. WILLIAM H. KLINE.....Topton, Pa.
JOHN J. MARCKS.....Wescoesville, Pa.
CHARLES W. REINERT.....Coplay, Pa.
REV. FRANK H. REITER.....Philadelphia, Pa.
ROBERT K. ROSENBERGER, B.S., M.D.....Schenectady, N. Y.
CLAUDE G. SHANKWEILER.....Allentown, Pa.
REV. SVEN O. SIGMOND.....Brooklyn, N. Y.
*J. R. TALLMAN.....Pottsville, Pa.
REV. G. LUTHER WEIBEL.....Leacock, Pa.

1906.

REV. THOMAS H. BACHMAN.....Neffs, Pa.
PRESTON A. BARBA, PH.D.....Bloomington. Ind.
WARREN E. BITTNER.....Allentown, Pa.
REV. JOHN D. M. BROWN.....Allentown, Pa.
*HARRY J. BUTZ, B.S.....Breinigsville, Pa.
REV. WILLIAM S. DRY.....Stouchsburg, Pa.
*EARLE T. HENNINGER.....Eckert, Pa.
CLAUDE O. HOFFMAN.....New York, N. Y.
REV. AUGUST C. KARKAU.....Liberty, N Y.
REV. HOWARD H. KRAUSS.....Auburn, Pa.
BRYAN W. LAROS, B. S.....Allentown, Pa.
REV. G. JOSEPH MULLER.....Brooklyn, N. Y.
LUTHER A. PFLUEGER.....Valparaiso, Ind.
REV. FREDERICK A. REITER.....Leechburg, Pa.
J. LUTHER REITER.....llentown, Pa.
REV. BENJAMIN L. ROMBERGER.....Allentown, Pa.
MILTON H. N. RITTER.....Macungie, Pa.
REV. CHARLES E. RUDY.....Frackville, Pa.
REV. JOHN W. B. SCHANTZ.....Schwenksville, Pa.
JOHN S. SCHNELLER, M.D.....Catasauqua, Pa.
REV. LEIDY B. STERNER.....Weissport, Pa.

1907.

Rev. Jacob W. Bittner.....Lititz, Pa.
Solomon J. Boyer.....Allentown, Pa.
Rev. Charles F. Dapp.....Spring City, Pa.
Rev. Willis F. Deibert.....Birdsboro, Pa.
Charles W. Ettinger.....Allentown, Pa.
Rev. Ambrose B. C. Hering.....Philadelphia, Pa.
Rev. Edward T. Horn, Jr.....Tokyo, Japan.
Harold E. Kuhns.....Egypt, Pa.
Rev. William H. C. Lauer.....Summit Hill, Pa.
Harold K. Marks.....Allentown, Pa.
Russell C. Mauch.....Hellertown, Pa.
Rev. Arthur T. Michler.....Lebanon, Pa.
Oliver W. Nickum.....Allentown, Pa.
Walter E. Schock.....Philadelphia, Pa.
J. Myron Shimer.....Allentown, Pa.
Elmer B. Ulrich, B.S., Ph.D.....Philadelphia, Pa.

1908.

James W. Anthony.....New York, N. Y.
Sem G. Beck, B.S., M.D.....Hecktown, Pa.
Fred. L. Coleman.....Lebanon, Pa.
Charles T. Jacks.....Allentown, Pa.
Rev. A. Charles R. Keiter.....Wildwood, N. J.
Morris W. Krause.....Pennsburg, Pa.
George Kuhl, Esq.....Allentown, Pa.
Frank H. Marsh.....Allentown, Pa.
Rev. Howard S. Paules.....Perkasie, Pa.
*Rev. Paul H. Rudh.....Freeburg, Pa.
Ralph H. Schatz, Esq.....Allentown, Pa.
Rev. Harry L. Y. Seyler.....Elizabeth, N. J.
Rev. Alfred M. Stump.....Easton, Pa.
Rev. Herbert A. Weaver.....Spring City Pa.

1909.

Rev. John S. Albert.....Minneapolis, Minn.
Warren M. Beidler.....Great Bend, Pa.
James H. S. Bossard, A.M. ..... Allentown, Pa.
Allen W. Butz.....Allentown, Pa.
Rev. Floyd L. Eichner.....Stroudsburg. Pa.
Albert C. H. Fasig, M.S. ..... Allentown, Pa.
J. Warren Fritsch.....Allentown, Pa.
Rev. Dallas F. Green.....Siegfried, Pa.
Benjamin L. Grossman.....Allentown, Pa.
Rev. Walter A. Hauser.....Selinsgrove, Pa.
Rev. Rufus E. Kern.....Marion, Va.
Charles A. Laubach.....Nazareth, Pa.
Frederick A. Marcks..... Nazareth, Pa.
Charles McCormick .....Baltimore, Md.
Henry R. Mueller.....Allentown, Pa.
Rev. Edgar V. Nonamaker.....New Germany, N. S.
Paul M. Reed.....Reading, Pa.
Ralph R. Rudolph.....Portland, Ore.
Roger R. Rupp, M.D.....Coplay, Pa.
J. Calvin Schuger..... Philadelphia, Pa.
John G. Schumaker..... Hopewell, N. J.
William B. Shelly.....Quakertown, Pa
Harold W. Shoenberger.....Philadelphia, Pa.
Jesse L. Stetler..... Wyomissing, Pa.
Rev. Herman D. Whitteker.....Emlenton, Pa.
Rev. Peter Wohlsen .....Quakertown, Pa.
Warren A. Ziegenfus .....Allentown, Pa.

1910.

John M. Aberly.....Newbern, N. C.
Austin H. S. Ernst.....Easton, Pa.
Geary E. Everett.....Bryce, Arizona.
G. Howard Gelsinger.....Lewisburg, Tenn.
Clayton C. Gernert.....Freemansburg, Pa.
Rev. John Hassler.....Elmira, N. Y.
Jacob H. Horn.....Saddle River, N. J.
Rev. Paul P. Huyett.....Berrysburg, Pa.
Martin S. Kleckner.....Allentown, Pa.
Rev. Elbert E. Landis.....Lancaster, Pa.
Rev. Curtis A. Miller.....Washingtonville, Pa.
Rev. Karl L. Reisner.....Philadelphia, Pa.

Rev. Arthur H. Schmoyer.....Weehawken, N. J.
Rev. George H. Shiery.....Millersville, Pa.
Asher H. Shupp.....Greenville, Pa.
Roy F. Shupp.....Newbern. N. C.
Kotaro Tanaka .....Tokyo, Japan.
Robert R. Urich.....Bethlehem, Pa.
Leon F. Werley.....Emaus, Pa.
Josiah A. Werner.....Hegins, Pa.
Rev. Nathan B. Y. Yerger.....Rohrerstown, Pa.

1911.

Raymond R. Ammarell.....West Leesport, Pa.
Philip S. Barringer.....Philadelphia, Pa.
John E. Bauman.....Allentown, Pa.
John H. Bieber.....Kutztown, Pa.
William E. Brandt.....Philadelphia, Pa.
Arthur N. Butz.....Allentown, Pa.
Warren L. Eberts.....Bethlehem, Pa.
Charles L. Grant.....Reamstown, Pa.
John E. Hartzell.....Allentown, Pa.
Robert E. Kline.....Allentown, Pa.
Edgar S. Lawall.....Catasauqua, Pa.
Harvey R. Miller.....Allentown, Pa.
Roger R. Rentschler.....Hamburg, Pa.
Francis H. Smith.....Philadelphia, Pa.
Harry G. Stuart.....Oakmont, Pa.
Paul C. Weber.....Latrobe, Pa.
Paul B. Wolper.....Norristown, Pa.
Frederick C. Wunder .....Rochester, N. Y.

1912.

Henry J. Althenn.....Paterson, N. J.
Henry J. Brobst .....Mahanoy City, Pa.
Walter W. Brossman .....Philadelphia, Pa.
Langhorne W. Fink .....Hamburg, Pa.
Herbert B. Frederick .....Allentown, Pa.
James F. Henninger .....Allentown, Pa.
Samuel J. Henry .....Blairstown, N. J.
Clarence C. Hummel .....Catasauqua, Pa.
Paul DeB. Keever .....Utica. N. Y.
Robert G. Kleckner .....Allentown, Pa.

JOHN R. KLINE ..... Quakertown, Pa.
PAUL H. KRAUSS ..... Chicago, Ill.
ROWLAND W. LEIBY ..... Ithaca, N. Y.
ADAM F. MILLER ..... Lebanon, Pa.
ERNEST J. REITER ..... Lancaster, Pa.
EDGAR O. REITZ ..... Delawater W. Gap, Pa.
WALTER M. RENTSCHLER ..... Pottsville, Pa.
JACOB S. SAVACOOL ..... Sellersville, Pa.
JAMES B. SCHOCK ..... Hamburg, Pa.
HENRY B. SHELLY ..... Quakertown, Pa.
CLARENCE M. SNYDER ..... Sellersville, Pa.
GEORGE P. STUMP ..... Phillipsburg, N. J.
CLARENCE C. TROXELL ..... Cementon, Pa.
LUTHER F. WAIDELICH ..... Sellersville, Pa.
HARRY M. WERTZ ..... Reading, Pa.

1913.

PHARES G. BEER ..... Perkasie, Pa.
GEORGE W. BIXLER ..... Allentown, Pa.
FRANK H. BLATT ..... Berne, Pa.
WILLIAM G. BOWSHER ..... Chester, Pa.
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ALLENTOWN PREPARATORY SCHOOL.

Formerly Academic Department of Muhlenberg College.

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LOCATION

While at the present time the Allentown Preparatory School is located in the building formerly occupied by Muhlenberg College, at Fourth and Walnut streets, it is planned to move about the first of September, 1914, into the new buildings, now in course of erection adjoining the campus of Muhlenberg College.

DESCRIPTION

These buildings are planned to meet the modern requirements of education preparatory to college.

In addition to ten commodious class rooms, provision is made for a study hall, an auditorium, a gymnasium, a chemical laboratory, physical laboratory, library, and locker rooms. Two floors will be devoted to dormitory rooms, well-lighted and heated. The sanitary arrangements are to be entirely modern.

The buildings are as near fire-proof as they can be made, with fire walls throughout and fire towers at each end.

AUDITORIUM AND GYMNASIUM

The auditorium will seat several hundred and will be used for chapel exercises, lectures, musicals, and school entertainments.

The gymnasium will be thoroughly equipped for the purpose intended. It is long, wide and high enough for regulation basket ball. Lockers and shower baths in abundance adjoin the gymnasium. As all the good of school is not to be had from books, attendance at the regular drills in the gymnasium is compulsory.

The school has football, baseball, basket ball, and track teams. Class games are encouraged, so that as many as possible may get the good that is to be derived therefrom.

ATHLETIC FIELDS

The new Allentown Preparatory School is to have its own campus of fifteen acres, the gift of Chas. F. Mosser, of

Allentown. Here will be located its baseball diamond, and football field, tennis courts, and track.

FOUR YEAR COURSE OF STUDY

The course of study has recently been revised to meet the entrance requirements of the best colleges and technical schools. In the classics, in mathematics, in English, in science, in history, the course will compare with the best in the land. Not merely this, but the different subjects have been correlated to bring the best results. The certificate of the school is accepted by Muhlenberg, Lehigh, Lafayette, Penn State, University of Pennsylvania, Bucknell, and many others.

SCHOOL YEAR AND FEES

The year is divided into three terms. Payments are by the term and due at the beginning of each term. The tuition fee for day students is $25.00 per term, and the minimum fee for boarding students is $260.00 per year, depending upon the location of dormitory rooms. This fee includes —besides tuition—board, room, light, heat, and laundry within certain limits. There is an athletic fee of $5.00, and a fee for use of materials and apparatus in the laboratories.

THE SCHOOL DAY

Recitations at present begin at eight o'clock and extend until one o'clock, but different arrangements may be found advisable in the new school. Afternoon periods are used as they are found necessary. The study period in the evening is for boarding students and for those day students whose parents wish them to attend to get the benefit of the individual instruction given by the teacher in charge. Those schools which have no study period are notably deficient in scholarship. Too much time is lost by the student when his study is not guided by one who knows.

Each student is furnished with a single bed, mattress, pillow, table, chair, and mirror, but he is expected to furnish his own rugs and bed clothing.

SUB-PREPARATORY DEPARTMENT

For boys who are not yet ready for the regular four years' course, there is the sub-preparatory department, which is kept separate from the main school. Since the number to be accommodated in this way is not large, there is great opportunity for individual instruction and thus for thoroughness. The subjects taught here are those of the common school, arithmetic, history, grammar, geography, spelling, reading, penmanship and physiology.

SUMMER SCHOOL

During the summer months the Allentown Preparatory School conducts a summer session of seven weeks for the benefit of those who have fallen back in their work, and for those who wish to advance themselves, and for teachers and others who plan to spend part of their vacation in self-improvement. The summer session of 1914 extends from June 23rd to August 8th.

STUDENTS

Including Summer Session, 1913:

MARIO DE AGUIAR ..... Sao Paulo, Brazil.
FRANCISCO DE PAULO AMARANTE ..... Sao Paulo, Brazil.
PAUL ARNER ..... Allentown, Pa.
GILBERT AYMAR ..... Allentown, Pa.
CARROLL BECHTEL ..... Pottstown, Pa.
JOHN BELLAN ..... Stockdale, Pa.
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WILLIAM CLAUSER ..... Allentown, Pa.
HAROLD CLAUSS ..... Allentown, Pa.
HOWARD CLAUSS ..... Allentown, Pa.
ALFRED DUDDING DAY ..... Sellersville, Pa.
FRANK DENOBRIGA ..... New York, N. Y.
EARL WILLIAM DONECKER ..... Allentown, Pa.
EDWIN DORNBLASER ..... Hecktown, Pa.
PAUL EBERT ..... New Tripoli, Pa.
BEN EFRON ..... Lehighton, Pa.
PAUL FASKA ..... Cleveland, Ohio.
FRED J. FIEDLER ..... Scranton, Pa.
PAUL FOGEL ..... Hecktown, Pa.
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WARREN HENN ..... Fullerton, Pa.
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EARL HERSH ..... Allentown, Pa.
ANDREW HIBIAN ..... Garfield, N. J.
LEON HINNERSCHITZ ..... Allentown, Pa.
MARK HOFFMAN ..... New Tripoli, Pa.
ARTHUR HOLBEN ..... Schnecksville, Pa.
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Alfred Louis Hummel	Allentown, Pa.
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Wallace Keller	Allentown, Pa.
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John Kline	Allentown, Pa.
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Edwin Kohler	Allentown, Pa.
Chester Kreis	Bethlehem, Pa.
Emory Kurtz	Allentown, Pa.
Wilmer S. Kuhn	Greenlane, Pa.
Earl W. Leh	Allentown, Pa.
Russell Leh	Egypt, Pa.
Arthur Leh	Allentown, Pa.
Raymond Leiby	Germansville, Pa.
Roy Leister	Sellersville, Pa.
Alvin C. Leonard	Allentown, Pa.
David H. Longacre, Jr.	Slatington, Pa.
Ezra Loy	New Tripoli, Pa.
John F. Lutz	Esterly, Pa.
Edgar Major	Allentown, Pa.
Carson Masters	Allentown, Pa.
James Melendez	New York City.
Dodofredo M. de Menezes	Sergipe, Brazil.
William H. Mohr	Allentown, Pa.
Robert Moyer	Allentown, Pa.
Roque Munoz	San Pedro Sula, Honduras.
Jose Munoz	San Pedro Sula, Honduras.
George Nelson	Brooklyn, N. Y.
Clark T. Peters	Allentown, Pa.
Paul de Barrsos Payares	Sao Paulo, Brazil.
Howard Phillips	Allentown, Pa.
Norberto Pinto, Jr.	Rio de Janeiro, Brazil.
Alberto M. Portuondo	Santiago, Cuba.
Alberto Porturas	Ancash, Peru.
Harry Rabenold	Allentown, Pa.

HOWARD REICHARD ..... Allentown, Pa.
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DONALD R. YOUNG ..... Macungie, Pa.
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RALPH ZELLNER ..... New Tripoli, Pa.
HARRY E. ZINSZER ..... Allentown, Pa.
CARLOS ZUMAETA ..... Iquitos, Peru.

Preparatory, 122.

INDEX

	Page
Administration Building	57
Admission, Terms of	9
Aesthetics	28
Agriculture	50
Algebra	45
Alegbra, Entrance Requirements in	15
Allentown Preparatory School	99
Alumni	77
Alumni Association	70
Alumni Hall	52
Ancient Languages (see Greek and Latin).	
Arts Course	9
Astronomy	46
Bacteriology	52
Biblical Literature and History	26
Biology	50
Board of Trustees	3
Board of Trustees, Officers	4
Board of Trustees, Committees	4
Botany	52
Buildings	57
Calculus	46
Calendar	2
Central Executive Committee	4
Chemistry	48-50
Classical Course	9
Committees of the Board	4
Commons, The	59
Courses of Instruction	17, 23
Courses of Instruction, Classical	19
Courses of Instruction, Scientific	19
Courses of Instruction, Philosophical	19
Courses for Premedical Students	18
Courses, Summary of Required	19
Credits, for Entrance	16
Credits, System for Graduation	18
Degrees	61
Departments of Instruction	26
Dormitories	58
Economics	43
Education	29
Elective Courses	20
Endowments and Bequests	69
English Language and Literature	35
English, Entrance Requirements in	10
Ethics	28
Examination Committee	4
Examinations, Term	62
Examinations, Entrance	9
Executive Committee	4
Expenses	67
Expenses in Administration Building	67
Expenses in Dormitories	68
Expenses, Special Students	67
Faculty and Instructors	5, 6
French	40
French, Entrance Requirements in.	15
Freshmen	73
Geology	54
Geometry	45
Geometry, Entrance Requirements in	15
German	39
German, Entrance Requirements in	14
Gifts to the Library	49-50
Government	62
Grammar, Entrance Requirements in	10
Greek	30
Greek, Entrance Requirements in.	10
Gymnasium	54
Historical Sketch	8
History	41
History, Entrance Requirements in	15
Instructors	5, 6
Italian	41
Juniors	71
Language (see English, French, etc.).	
Latin	32
Latin, Entrance Requirements in.	10
Lectures, Special	7, 55
Library and Reading Room	56
Literature (see English, French, etc.).	
Literary Societies	55
Location	8
Logic	28
Luther League Hall	52
Master's Degree	58
Mathematics	45
Mathematics, Entrance Requirements in	15
Meteorology	46
Modern Languages (see English, etc.).	
Music	29

	Page
Navigation	46
Officers of the Board	4
Pedagogy	28
Philosophical Course	27-28
Philosophy	27
Physical Education	54
Physics	48
Physics, Entrance Requirements in	16
Physiography	46
Power Plant	59
Preparatory School	99
Prizes	60
Psychology	28
Public Speaking	37
Reading Room	56
Registration	62
Religion	26
Reports	63
Requirements for Entrance	9
Rhetoric	35
Rent of Rooms	61
Roman Language (see Latin).	
Romance Language (see French, Spanish).	
Rooms, Rent of	68
Saturday Teachers' Class	68
Schedule, Freshman	22
Schedule, Sophomore	23
Schedule, Junior	24
Schedule, Senior	25
Schieren, Chas. A., Fund	65
Scholarships	63
Scientific Course	17
Seniors	71
Sociology	43
Sophomores	72
Spanish	41
Special Courses	18
Special Courses, Cost of	60
Special Lectures	7, 55
Students, List of	71
Summary of Students	76
Surveying	45
Term Examinations	62
Term Reports	63
Trigonometry	45
Trustees, Board of	3
Undergraduates	71
Zoology	51

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